



PRODUCT CATALOGUE

FAST CHARGING

HEAVY
DUTY



LONG LASTING

Amaze Solar is the leading provider of cutting-edge solar energy solutions. Specialising in residential solar panel installations, they offer state-of-the-art photovoltaic systems that seamlessly integrate with your home.

With a focus on efficiency and sustainability, Amaze Solar ensures customised setups to maximise energy production and minimise costs.

Their team of experts guides clients through the entire process, from initial consultation to installation and beyond. Choose Amaze Solar for a reliable and eco-friendly energy solution that transforms sunlight into savings.





Our Projects

AMAZE
SOLAR



568 kW
Deoghar, Jharkhand



350 kW
Kurukshetra, Haryana



136 kW
Nawanshahr, Punjab



115 kW
Mahendragarh, Haryana

620W-635W (DCR)



G12R solar panels are next-generation modules built with advanced N-Type TOPCon technology offering higher efficiency, improved bifacial performance, and long-term reliability—making them ideal for utility-scale and commercial installations.



**Premium Grade
A Cells**



**Quality checks through
advanced AI Tech**



**Anti-reflection
Coating**



**Fully Tempered
Automotive Glass**



**30 Years
Performance
Warranty**



**12 Years
Product
Warranty**

**ALMM
Approved**

**Enlisted under
ALMM Order**

Bi-facial Glass-to-Glass

Electrical Data (STC)	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	620	625	630	635
Maximum Power Voltage Vmp (V)	40.99	41.18	41.51	41.58
Maximum Power Current Imp (A)	15.13	15.179	15.18	15.27
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	16.16	16.180	16.2	16.21
Module Efficiency (%)	22.95	23.14	23.32	23.51
Maximum System Voltage (V)	1500	1500	1500	1500

STC: Irradiance 1000W/m² , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	465	469.4	473	477
Maximum Power Voltage Vmp (V)	38.09	39.07	38.57	38.65
Maximum Power Current Imp (A)	12.22	12.24	12.26	12.33
Open Circuit Voltage Voc (V)	45.59	45.8	46.08	46.15
Short Circuit Current Isc (A)	13.05	13.06	13.08	13.09

NOCT: Irradiance 800W/m² ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	687	692.5	698	704
Maximum Power Voltage Vmp (V)	40.99	45.63	41.51	41.58
Maximum Power Current Imp (A)	16.76	17.93	16.82	16.92
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	17.91	16.81	17.95	17.96

BNPI:1000W/m² *Φ.135, BIFACILITY COEFF. (Φ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

Bi-facial Output	AMS 625TG132 BI-GL (Reference Model)			
Bi-faciality Gain	10%	15%	20%	25%
Peak Power Pmax (Wp)	688	719	750	781
Maximum Power Voltage Vmp (V)	41.18	41.18	41.18	41.18
Maximum Power Current Imp (A)	16.69	17.45	18.21	18.97
Open Circuit Voltage Voc (V)	48.28	48.28	48.28	48.28
Short Circuit Current Isc (A)	17.8	18.61	19.42	20.23
Module Efficiency (%)	25.47	26.61	27.77	28.91

Mechanical Data	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Cell Type	TOPCON (N-Type)			
No. of Cells	132 half cells (Bifacial solar cells)			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	30A			
Module Dimensions (mm)	2382x1134x30			
Module Weight (KG)	32.5 Kg			
Junction Box	IP 68, Split Junction Box with individual bypass diodes			
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors			
Frame	Anodized AAMSinium			
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC			
Cell Encapsulant	High quality Encapsulant			
Backsheet	Glass			
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.26%/°C			
Temp coefficient of Short Circuit Current	+0.046%/°C			
Temperature coefficient of Power	-0.31%/°C			

Warranty and Certifications	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Product Warranty	12 Years			
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30			
Approvals and Certificates	BIS certified as per IS/IEC standards			

620W-635W (NON-DCR)



G12R solar panels are next-generation modules built with advanced N-Type TOPCon technology offering higher efficiency, improved bifacial performance, and long-term reliability—making them ideal for utility-scale and commercial installations.



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A Cells**



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Coating**



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Automotive Glass**



**30 Years
Performance
Warranty**



**12 Years
Product
Warranty**

**ALMM
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ALMM Order**

Bi-facial Glass-to-Glass

Electrical Data (STC)	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	620	625	630	635
Maximum Power Voltage Vmp (V)	40.99	41.18	41.51	41.58
Maximum Power Current Imp (A)	15.13	15.179	15.18	15.27
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	16.16	16.180	16.2	16.21
Module Efficiency (%)	22.95	23.14	23.32	23.51
Maximum System Voltage (V)	1500	1500	1500	1500

STC: Irradiance 1000W/m² , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	465	469.4	473	477
Maximum Power Voltage Vmp (V)	38.09	39.07	38.57	38.65
Maximum Power Current Imp (A)	12.22	12.24	12.26	12.33
Open Circuit Voltage Voc (V)	45.59	45.8	46.08	46.15
Short Circuit Current Isc (A)	13.05	13.06	13.08	13.09

NOCT: Irradiance 800W/m² ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Peak Power Pmax (Wp)	687	692.5	698	704
Maximum Power Voltage Vmp (V)	40.99	45.63	41.51	41.58
Maximum Power Current Imp (A)	16.76	17.93	16.82	16.92
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	17.91	16.81	17.95	17.96

BNPI:1000W/m² *Φ.135, BIFACILITY COEFF. (Φ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

Bi-facial Output	AMS 625TG132 BI-GL (Reference Model)			
Bi-faciality Gain	10%	15%	20%	25%
Peak Power Pmax (Wp)	688	719	750	781
Maximum Power Voltage Vmp (V)	41.18	41.18	41.18	41.18
Maximum Power Current Imp (A)	16.69	17.45	18.21	18.97
Open Circuit Voltage Voc (V)	48.28	48.28	48.28	48.28
Short Circuit Current Isc (A)	17.8	18.61	19.42	20.23
Module Efficiency (%)	25.47	26.61	27.77	28.91

Mechanical Data	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Cell Type	TOPCON (N-Type)			
No. of Cells	132 half cells (Bifacial solar cells)			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	30A			
Module Dimensions (mm)	2382x1134x30			
Module Weight (KG)	32.5 Kg			
Junction Box	IP 68, Split Junction Box with individual bypass diodes			
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors			
Frame	Anodized AAMSinium			
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC			
Cell Encapsulant	High quality Encapsulant			
Backsheet	Glass			
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.26%/°C			
Temp coefficient of Short Circuit Current	+0.046%/°C			
Temperature coefficient of Power	-0.31%/°C			

Warranty and Certifications	AMS 620TG132 BI-GL	AMS 625TG132 BI-GL	AMS 630TG132 BI-GL	AMS 635TG132 BI-GL
Product Warranty	12 Years			
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30			
Approvals and Certificates*	BIS certified as per IS/IEC standards			



Topcon Bifacial Solar Panels



575W-595W



TOPCON solar cells are the innovative technology of the photovoltaic industry with high efficiency, reduced electron recombination through a tunnel oxide layer, and improved durability with less degradation over time. They often come with bifacial capabilities, capturing sunlight from both sides, and perform well in low-light conditions, making them ideal for utility-scale and rooftop installations.



**Premium Grade
A Cells**



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**Anti-reflection
Coating**



**Fully Tempered
Automotive Glass**



**30 Years
Performance
Warranty**



**12 Years
Product
Warranty**

**ALMM
Approved**

**Enlisted under
ALMM Order**

Bi-facial Transparent Backsheet

Electrical Data (STC)	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Peak Power Pmax (Wp)	575	580	585	590	595
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	45.08
Maximum Power Current Imp (A)	13.55	13.62	13.69	13.76	13.2
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	54.90
Short Circuit Current Isc (A)	14.31	14.37	14.43	14.49	13.79
Module Efficiency (%)	22.26	22.45	22.65	22.84	23.03%

STC: Irradiance 1000W/m 2 , Cell Temperature: 25 °C, Spectrum AM1,5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Peak Power Pmax (Wp)	431	435	439	443	446
Maximum Power Voltage Vmp (V)	39.44	39.58	39.72	39.85	41.9
Maximum Power Current Imp (A)	10.94	11	11.05	11.11	10.66
Open Circuit Voltage Voc (V)	48.6	48.79	48.98	49.16	52.05
Short Circuit Current Isc (A)	11.55	11.6	11.65	11.7	11.13

NOCT: Irradiance 800W/m 2 ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Peak Power Pmax (Wp)	637	643	648	654	659
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	42.88
Maximum Power Current Imp (A)	15.01	15.09	15.17	15.25	14.63
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	51.86
Short Circuit Current Isc (A)	15.86	15.92	15.99	16.05	15.28

BNPI:1000W/m 2 *Φ.135, BIFACILITY COEFF. (Φ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10% , AM 1.5, 25°C

Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)				
Bi-Faciality Gain	10%	15%	20%	25%
Peak power Pmax (Wp)	643.00	672	702	731
Maximum Power Voltage Vmp (V)	44.60	44.60	44.60	44.60
Maximum Power Current Imp (A)	14.42	15.07	15.74	16.39
Open Circuit Voltage Voc (V)	53.93	53.90	53.95	53.92
Short Circuit Current Isc (A)	15.11	15.8	16.49	17.18
Module Efficiency (%)	24.78%	25.94%	27.10%	28.26%

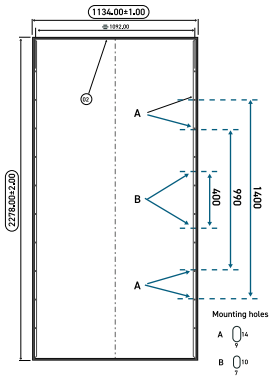
Mechanical Data	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Cell Type	TOPCON (N-Type)				
No. of Cells	72 (144 half- cells) Bifacial solar cells				
Rated Module Voltage (V)	24				
Maximum Series Fuse Rating	25A				
Module Dimensions (mm)	2278x1134x30				
Module Weight (KG)	28.8 Kg				
IP Rating	IP 68 (With Potting)				
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors				
Frame	Silver Anodized aAluminium alloy				
Glass	3.2mm thick high transmission low iron tempered glass, AR coated				
Cell Encapsulant	High quality Encapsulant				
Backsheet	Transparent Backsheet				
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)				
Application Class	Class A (Safety Class II)				

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Operating Temperature	-40°C to +85°C				
Temp coefficient of Open Circuit Voltage	-0.26%/°C				
Temp coefficient of Short Circuit Current	+0.046%/°C				
Temperature coefficient of Power	-0.31%/°C				
NOCT	45°C ± 2°C				

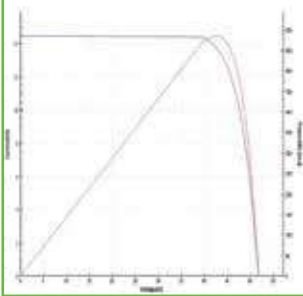
Warranty and Certifications	AMS 24575T144 BI-TS	AMS 24580T144 BI-TS	AMS 24585T144 BI-TS	AMS 24590T144 BI-TS	AMS 24595TG144 BI-TS
Product Warranty	12Years				
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30				
Approvals and Certificates*	BIS certified as per IS/IEC standards				

Solar Module Dimension

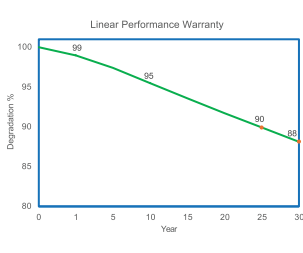
AMS24585T144 BI-TS



IV Curve



Linear Graph



*Approvals & Certifications

- IEC 61853-1 | IEC 61853-1
- IEC EC 62759-1 | IEC 61853-2 |
- IEC 61853-2 | IEC 62716 |
- IEC 62759-1 | IEC 61701 |
- IEC TS 62804 -1 | IEC 60068-2-68 |
- IEC 60068-2-68 | IEC TS 62804-1 |
- IEC 61701 | IEC 62716

Packaging Information

Container	32 Feet
Modules per pallet	36 Nos.
Pallets per container	16 Nos.
Modules per container	576 Nos.

Bi-facial Glass-to-Glass

Electrical Data (STC)	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Peak Power Pmax (Wp)	575	580	585	590	595
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	45.8
Maximum Power Current Imp (A)	13.55	13.62	13.69	13.76	13.2
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	54.90
Short Circuit Current Isc (A)	14.31	14.37	14.43	14.49	13.79
Module Efficiency (%)	22.26	22.45	22.65	22.84	23.03%

STC: Irradiance 1000W/m 2 , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Peak Power Pmax (Wp)	431	435	439	443	446
Maximum Power Voltage Vmp (V)	39.44	39.58	39.72	39.85	41.9
Maximum Power Current Imp (A)	10.94	11	11.05	11.11	10.66
Open Circuit Voltage Voc (V)	48.6	48.79	48.98	49.16	52.05
Short Circuit Current Isc (A)	11.55	11.6	11.65	11.7	11.13

NOCT: Irradiance 800W/m 2 ,Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Peak Power Pmax (Wp)	637	643	648	654	659
Maximum Power Voltage Vmp (V)	42.44	42.59	42.74	42.88	42.88
Maximum Power Current Imp (A)	15.01	15.09	15.17	15.25	14.63
Open Circuit Voltage Voc (V)	51.27	51.47	51.67	51.86	51.86
Short Circuit Current Isc (A)	15.86	15.92	15.99	16.05	15.28

BNPI:1000W/m 2 +Φ.135, BIFACILITY COEFF. (Φ) AT BNPI PMAX, ISC IS 80+10% & FOR VOC IS 99+10% , AM 1.5, 25°C

Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)				
Bi-Faciality Gain	10%	15%	20%	25%
Peak power Pmax (Wp)	644.00	673	702	731
Maximum Power Voltage Vmp (V)	43.47	43.55	43.68	43.77
Maximum Power Current Imp (A)	14.81	15.44	16.09	16.73
Open Circuit Voltage Voc (V)	51.98	52.08	52.19	52.29
Short Circuit Current Isc (A)	15.86	16.58	17.31	18.03
Module Efficiency (%)	24.91%	26.04%	27.18%	28.31%

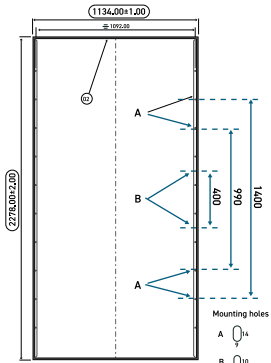
Mechanical Data	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Cell Type	TOPCON (N-Type)				
No. of Cells	72 (144 half- cells) Bifacial solar cells				
Rated Module Voltage (V)	24				
Maximum Series Fuse Rating	25A				
Module Dimensions (mm)	2278x1134x30				
Module Weight (KG)	30 Kg				
IP Rating	IP 68 (With Potting)				
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors				
Frame	Silver Andonized aAMSinium alloy				
Glass	Front 2.0mm ARC; Back 2.0mm Non ARC				
Cell Encapsulant	High quality Encapsulant				
Backsheet	Glass				
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)				
Application Class	Class A (Safety Class II)				

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Operating Temperature	-40°C to +85°C				
Temp coefficient of Open Circuit Voltage	-0.26%/°C				
Temp coefficient of Short Circuit Current	+0.046%/°C				
Temperature coefficient of Power	-0.31%/°C				
NOCT	45°C ± 2°C				

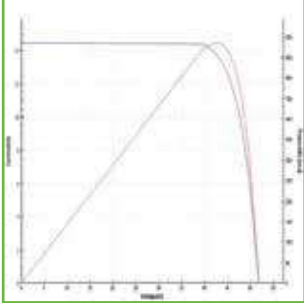
Warranty and Certifications	AMS 24575TG144 BI-GL	AMS 24580TG144 BI-GL	AMS 24585TG144 BI-GL	AMS 24590TG144 BI-GL	AMS 24595TG144 BI-GL
Product Warranty	12Years				
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30				
Approvals and Certificates*	BIS certified as per IS/IEC standards				

Solar Module Dimension

AMS24585T144 BI-GL



IV Curve



Linear Graph



*Approvals & Certifications

IEC 61853-1 | IEC 61853-1
IEC EC 62759-1 | IEC 61853-2 |
IEC 61853-2 | IEC 62716 |
IEC 62759-1 | IEC 61701 |
IEC TS 62804 -1 | IEC 60068-2-68 |
IEC 60068-2-68 | IEC TS 62804-1 |
IEC 61701 | IEC 62716

Packaging Information

Container	32 Feet
Modules per pallet	36 Nos.
Pallets per container	16 Nos.
Modules per container	576 Nos.

PV Panels

Mono PERC Half Cut Bifacial Panels



Solar Panels



Mono PERC half-cut solar panels utilize advanced cell-splitting technology to enhance efficiency and durability. By reducing resistive losses and optimizing energy output, they achieve higher performance while lower current minimizes power losses and heat buildup, extending lifespan. Improved shading tolerance ensures better operation in partial shade, while PERC technology enhances energy capture in low-light conditions. Additionally, the advanced design reduces hotspots, ensuring long-term reliability and stability.



Excellent Low-light Performance



Functions like 2 parallel modules



PID Resistance Technology



Space Efficient



25 Years Performance Warranty



12 Years Product Warranty

ALMM Approved

Enlisted under ALMM Order

Bi-facial Transparent Backsheet

Electrical Data STC*	AMS 24540M (Mono-Facial)	AMS 24540M BI-TS	AMS 24545M BI-TS	AMS 24550M BI-TS
Peak power, Pmax(Wp)	540	540	545	550
Maximum Power Voltage Vmp (V)	41.92	41.92	41.96	42.00
Maximum Power Current Imp (A)	12.89	12.89	12.99	13.1
Open Circuit Voltage Voc (V)	49.40	49.40	49.44	49.48
Short circuit current, Isc (A)	13.72	13.72	13.83	13.95
Module efficiency (%)	20.89	20.89	21.09	21.62
Maximum System Voltage (V)	1500V	1500V	1500V	1500V

*Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

Electrical Characteristics with different rear side power gain (Reference 545 Wp Front)	AMS 24545M BI-TS				AMS 24550M BI-TS			
Bi-Faciality Gain	10%	15%	20%	25%	10%	15%	20%	25%
Peak power Pmax (Wp)	599	626	654	681	605	632	660	687
Maximum Power Voltage Vmp (V)	41.96	41.96	41.96	41.96	42	42	42	42
Maximum Power Current Imp (A)	14.28	14.92	15.59	16.23	14.41	15.05	15.71	16.36
Open Circuit Voltage Voc (V)	49.42	49.37	49.44	49.41	49.51	49.49	49.53	49.48
Short Circuit Current Isc (A)	15.21	15.91	16.6	17.29	15.35	16.04	16.74	17.44
Module Efficiency (%)	23.03	24.19	25.16	26.32	23.42	24.39	25.55	26.52

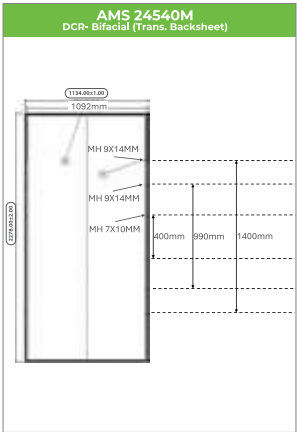
Mechanical Data	AMS 24540M (Mono-Facial)	AMS 24540M BI-TS	AMS 24545M BI-TS	AMS 24550M BI-TS
Cell Type	Mono PERC Half Cut			
No. of Cells	144			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	25 A			
Module Dimensions (mm)	2278 x 1134 x 30			
Module Weight (KG)	28.3			
IP Rating	IP 67			
Cable	300 mm length cables			
Frame	Silver andonized aAMSinium alloy			
Glass	3.2 mm thick high transmission low iron tempered glass, AR coated			
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)			
Backsheet	White	Transparent		
Maximum surface load capacity	5400 Pa			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 24540M (Mono-Facial)	AMS 24540M BI-TS	AMS 24545M BI-TS	AMS 24550M BI-TS
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.3%/°C			
Temp coefficient of Short Circuit Current	+0.06%/°C			
Temperature coefficient of Power	-0.35%/°C			

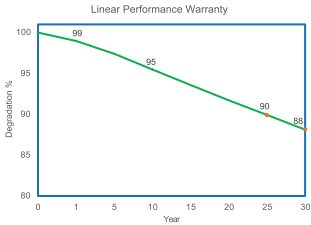
Warranty and Certifications	AMS 24540M (Mono-Facial)	AMS 24540M BI-TS	AMS 24545M BI-TS	AMS 24550M BI-TS
Product Warranty	12 Years			
Performance Warranty	Linear performance warranty for 25 years with 2% for 1st year degradation and 0.55% from year 2 to 25			
Approvals and Certificates**	BIS certified as per IS/IEC standards			

Packaging Information	AMS 24540M (Mono-Facial)	AMS 24540M BI-TS	AMS 24545M BI-TS	AMS 24550M BI-TS
Container	32 Feet			
Modules per pallet	36 Nos.			
Pallets per container	16 Nos.			
Modules per container	576 Nos.			

Solar Module Dimension



Linear Graph



**Certifications

IEC 61853-1 | IEC 61853-1
IEC EC 62759-1 | IEC 61853-2 |
IEC 61853-2 | IEC 62716 |
IEC 62759-1 | IEC 61701 |
IEC TS 62804 -1 | IEC 60068-2-68 |
IEC 60068-2-68 | IEC TS 62804-1 |
IEC 61701 | IEC 62716

Bi-facial Glass-to-Glass

Electrical Data STC*	AMS 24540M BI-GL	AMS 24545M BI-GL	AMS 24550M BI-GL
Peak power, Pmax(Wp)	540	545	550
Maximum Power Voltage Vmp (V)	41.92	41.96	42.00
Maximum Power Current Imp (A)	12.89	12.99	13.1
Open Circuit Voltage Voc (V)	49.40	49.44	49.48
Short circuit current, Isc (A)	13.72	13.83	13.95
Module efficiency (%)	20.89%	21.09%	21.62%
Maximum System Voltage (V)	1500V	1500V	1500V

*Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

Electrical Characteristics with different rear side power gain (Reference 545 Wp Front)	AMS 24545M BI-GL				AMS 24550M BI-GL			
Bi-Faciality Gain	10%	15%	20%	25%	10%	15%	20%	25%
Peak power Pmax (Wp)	599	626	654	681	605	632	660	687
Maximum Power Voltage Vmp (V)	41.96	41.96	41.96	41.96	42	42	42	42
Maximum Power Current Imp (A)	14.28	14.92	15.59	16.23	14.41	15.05	15.71	16.36
Open Circuit Voltage Voc (V)	49.42	49.37	49.44	49.41	49.51	49.49	49.53	49.48
Short Circuit Current Isc (A)	15.21	15.91	16.6	17.29	15.35	16.04	16.74	17.44
Module Efficiency (%)	23.03%	24.19%	25.16%	26.32%	23.42%	24.39%	25.55%	26.52%

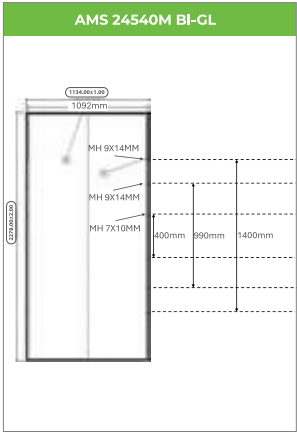
Mechanical Data	AMS 24540M BI-GL	AMS 24545M BI-GL	AMS 24550M BI-GL
Cell Type	Mono PERC Half Cut		
No. of Cells	144		
Rated Module Voltage (V)	24		
Maximum Series Fuse Rating	25 A		
Module Dimensions (mm)	2278 x 1134 x 30		
Module Weight (KG)	29 KG		
IP Rating	IP 67		
Cable	300 mm length cables		
Frame	Silver andonized aAMSinium alloy		
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC		
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)		
Backsheet	Glass		
Maximum surface load capacity	5400 Pa		
Application Class	Class A (Safety Class II)		

Temperature Co-efficients (Tc) and permissible operating conditions	AMS 24540M BI-GL	AMS 24545M BI-GL	AMS 24550M BI-GL
Operating Temperature	-40°C to +85°C		
Temp coefficient of Open Circuit Voltage	-0.266%/°C		
Temp coefficient of Short Circuit Current	0.044%/°C		
Temperature coefficient of Power	-0.325%/°C		

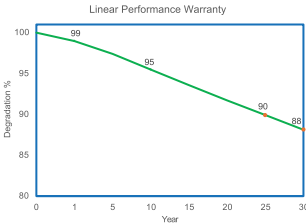
Warranty and Certifications	AMS 24540M BI-GL	AMS 24545M BI-GL	AMS 24550M BI-GL
Product Warranty	12 Years		
Performance Warranty	Linear performance warranty for 25 years with 2% for 1st year degradation and 0.55% from year 2 to 25		
Approvals and Certificates**	BIS certified as per IS/IEC standards		

Packaging Information	AMS 24540M BI-GL	AMS 24545M BI-GL	AMS 24550M BI-GL
Container	32 Feet		
Modules per pallet	36 Nos.		
Pallets per container	16 Nos.		
Modules per container	576 Nos.		

Solar Module Dimension



Linear Graph



**Certifications

IEC 61853-1 | IEC 61853-1
IEC EC 62759-1 | IEC 61853-2 |
IEC 61853-2 | IEC 62716 |
IEC 62759-1 | IEC 61701 |
IEC TS 62804 -1 | IEC 60068-2-68 |
IEC 60068-2-68 | IEC TS 62804-1 |
IEC 61701 | IEC 62716

PV Panels

Polycrystalline Panels



Solar Panels



Polycrystalline solar panels provide a cost-effective and reliable energy solution, utilizing multiple silicon crystals to ensure durability and stable performance. Their manufacturing process maximizes material use and minimizes waste, making them a more sustainable option. With a robust design that delivers consistent power output, they are well-suited for residential, commercial, and large-scale installations.



**Excellent Low-light
Performance**



**Resilience to
Extreme Weather**



**PID Resistance
Technology**



**Advance EVA
Encapsulation**



**25 Years
Performance
Warranty**



**5 Years
Product
Warranty**

**ALMM
Approved**

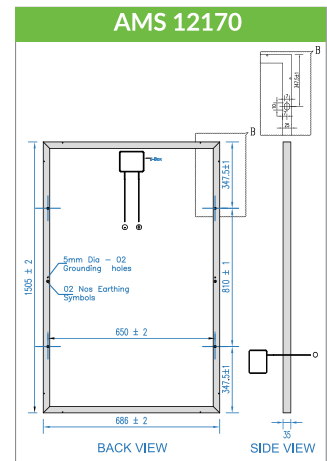
**Enlisted under
ALMM Order**

Electrical Parameters @ STC#

Model Name	AMS 12170
Cell Type	Poly
No. of Cells	36
Peak Power P _{Max} (Wp)	170
Rated Module Voltage (V)	12
Maximum Power Voltage V _{mp} (V)	18.86
Maximum Power Current I _{mp} (A)	9.02
Open Circuit Voltage V _{oc} (V)	23.01
Short Circuit Current I _{sc} (A)	9.61
Module Efficiency (%)	16.47%
Maximum System Voltage (V)	600V
Maximum Series Fuse Rating	12A

STC (1000W/m²), AM1.5, cell temperature 25° C". Power Tolerance : 0/+5%. Power measurement accuracy:±3%

Solar Module Dimension



Mechanical Data

Module Dimensions (mm)	1505x686
LxWxT	x35
Module Weight (kgs)	11
IP Rating	IP 65
Cable	1000mm length cables
Frame	Silver Anodized AAMSinium Alloy
Glass	3.2mm thick high transmission low iron tempered glass, AR coated
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Maximum Surface Load Capacity	5400 Pa (Pascals)
Aplication Class	Class A (Safety Class II)

Permissible Operating Conditions

Operating Temperature	- 40°C to + 85°C	
Temp coefficient of Open Circuit Voltage	-0.23 %/°C	-0.3%/°C
Temp coefficient of Short Circuit Current	0.07 %/°C	+0.06%/°C
Temp coefficient of Power	-0.29 %/°C	-0.35%/°C

Warranty and Certifications

Product Warranty*	5 Years	12 Years
Performance Warranty*	Linear Performance Warranty for 25 Years with 3% for 1st year degradation and 0.70% from year 2 to 25	
Approvals and Certificates	BIS certified as per IS/IEC standards	

* Refer to Amaze Warranty document for Terms and conditions.
Technical specifications are subject to change without prior notice.

AMi T

Perfect Blend of Safety and Efficiency

AMAZE
SOLAR

On-Grid Inverters



The AMi T series from Amaze is available in single & Three phase configuration. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities 3kw, 5kw and 10kW.



Maximum Power Point Tracking



Anti-Islanding Protection



Inbox Wi-Fi Dongle



up to 150% DC overloading



10 Years
Warranty



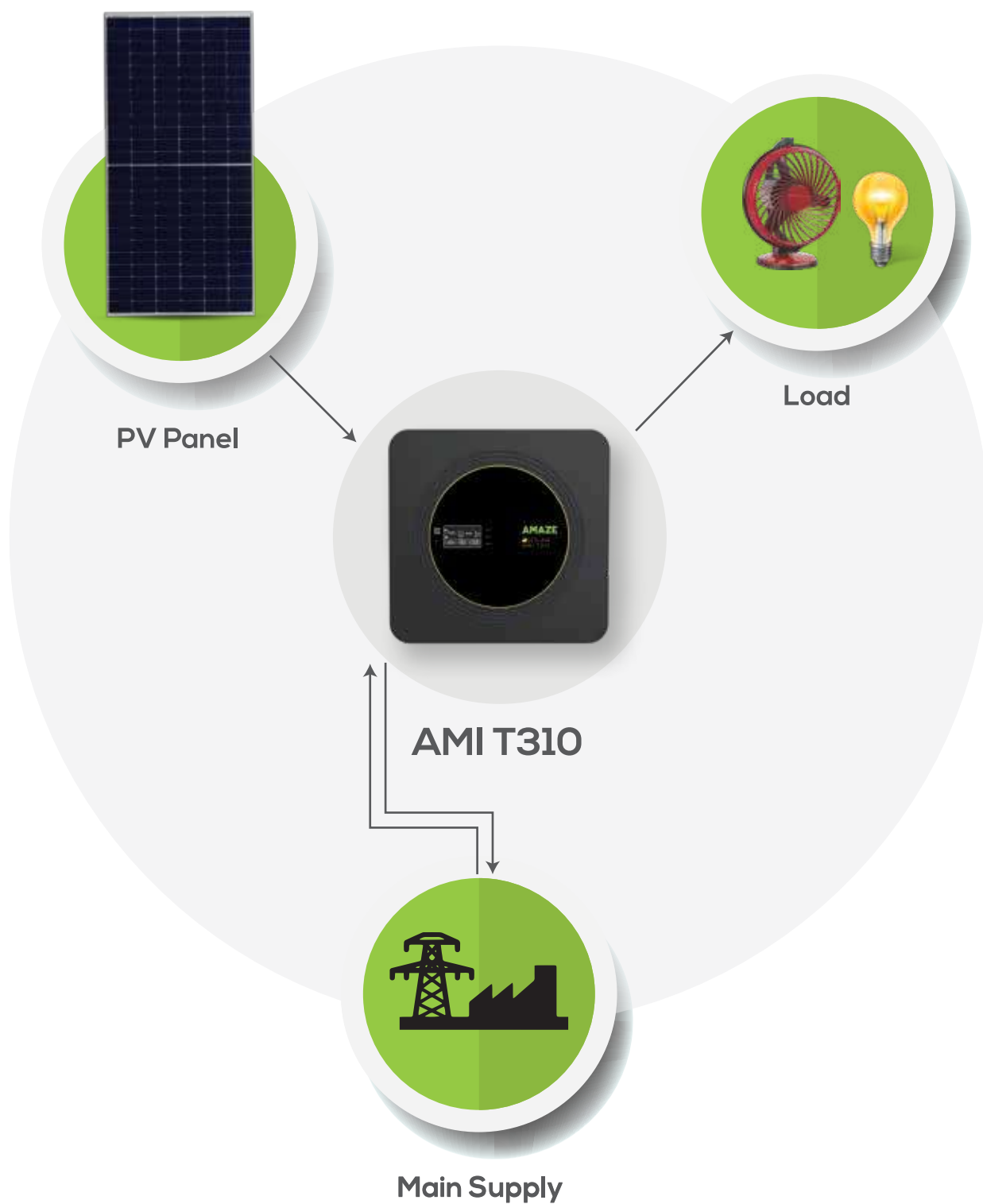
>99%
Efficiency



Remote
Monitoring

Solar Estimation Chart

Solution		Panel Connection Combination (Series-Parallel)
GTI	PV Panel Watt	
Ami T130	590Wp/635Wp x 6 No.s	6 (S)
Ami T150	590Wp/635Wp x 9 No.s	9 (S)
Ami T310	590Wp/635Wp X 18 Nos	18 (S)



Single and 3 Phase

Model Name	AMi T130	AMi T150	AMi T310
Rated output power (kW)	3	5	10
INPUT DC			
Max. DC Input Power (kW)	4.5	7.5	15.0
Max. DC Input Voltage (V)	550	550	1000
Start-up Voltage [V]	75	75	125
MPPT Voltage range (V)	100 – 500	100 – 500	160–850
Max input current per MPPT (A)	18A	22A	18A
Number of MPPT	1	1	2
Max Input Strings Number	1	1	1
OUTPUT (AC)			
Rated output power (kW)	3	5	10
Max. output power [kW]	3.3	5.5	11.0
Max. output Current [A]	16	23.0	17.0
Grid Frequency range (Hz)	50/60Hz		
Power Factor (at rated output power)	0.8 0.8		
Total harmonic distortion [THDi]	< 1.5%	< 2.5%	< 5%
Feed-in phase/connection phase	Single Phase		Three Phase
EFFICIENCY			
Max. Efficiency	97.5%	97.5%	98.4%
MPPT Efficiency	>99.9		
PROTECTION			
Inbuilt Protections	DC Reverse Polarity Protection, Short Circuit Protection, O/P Over Current Protection, O/P Over voltage protection, Insulation resistance monitoring, Residual current detection, surge protection, Anti-Islanding Protection, Temperature Protection		
INTERFACE			
DC Connection	MC4 Connectors		
Display	LCD	LCD	LCD
Datalogger & Communication	Standard Wi-Fi / RS485 (optional)		Wi-Fi / RS485/ GPRS
GENERAL DATA			
Topology	Transformerless		
Consumption @ night	< 0.2 W		
Operating Temperature Range	-25°C to 60°C		
Cooling Method	Smart Cooling		
Relative Humidity	0 – 95 % (No Condensation)		
Max. Operational Altitude	2000m		
Noise [dBA]	<25dBA		
Designed Lifetime	> 20 years		
Ingress Protection	IP65		
Dimensions (W*H*D) (mm)	300W*294H*104D	370W *318.5H *105.5D	480W *476H *157D
Net weight (Kg)	5.0	7.0	16.0
STANDARDS			
Safety/EMC	BIS Certified as per IS/IEC standards		

Technical specifications are subject to change without prior notice.

AMI

Perfect Blend of Safety and Efficiency

AMAZE
SOLAR

On-Grid Inverters



The AMI series from Amaze is available in Three phase configuration. With best-in-class reliability and compliance to safety standards, the inverters are available in capacities 5kw to 100kW.



Maximum Power Point Tracking



Anti-Islanding Protection



IV Curve Scanning



up to 150% DC overloading



10+ Years
Warranty



>99%
Efficiency



Remote
Monitoring

Three Phase

Model	AMi 305-S5	AMi 306-S5	AMi 308-S5	AMi 312-S5	AMi 315-S5	AMi 320-S5
Max. DC input voltage (Volts)	1100					
Rated DC voltage (Volts)	600					
Start-up voltage (Volts)	180					
MPPT voltage range (Volts)	160...1000					
Max. input current (Amps)	16+16			32+32		
Max short circuit input current (Amps)	20+20			40+40		
MPPT number/Max input strings number	2/2			2/4		
Rated output power (Watts)	5000	6000	8000	12000	15000	20000
Max. output power (Watts)	5500	6600	8800	13200	16500	22000
Max. apparent output power (VA)	5500	6600	8800	13200	16500	22000
Rated grid voltage (Volts)	3/N/PE~220/380, 230/400					
Rated output current (Amps)	7.6/7.2	9.1/8.7	12.2/11.5	18.2/17.3	22.8/21.7	30.4/28.9
Max. output current (Amps)	7.9	9.5	12.7	19.1	23.8	31.8
Power Factor (at rated output power)	>0.99 (0.8 leading - 0.8 lagging)					
THDi (at rated output power)	<2%					
Rated grid frequency (Hertz)	50/60					
Operating frequency range (Hertz)	45...55 or 55...65					
Max.efficiency	98.3%		98.5%	98.6%		98.7%
EU efficiency	97.7%	97.7%	97.9%	98.0%	98.0%	98.1%
Dimensions	310W*563H*219D (mm)					
Weight	17.8kg				18.8kg	20.0kg
Topology	Transformerless					
Self consumption (night)	< 1 W					
Operating ambient temperature range	-25C...+60C					
Relative humidity	0~100%					
Ingress protection	IP66					
Noise emission (typical)	<30 dBA			<60 dBA		
Cooling concept	Natural convection			Intelligent redundant fan-cooling		
Max.operation altitude	4000m					
Safety	BIS					
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD, 2×20 Z.					
Communication connections	RS485, DO, DI, Optional: Wi-Fi, GPRS					

Three Phase

Model	AMi 325-S5	AMi 330-S5	AMi 350-S5	AMi 360-S5	AMi 380-Pro	AMi 3100-Pro
Max. DC input voltage (Volts)	1100					
Rated DC voltage (Volts)	600					
Start-up voltage (Volts)	180		195		180	
MPPT voltage range (Volts)	200~1000		180...1000		160...1000	
Max. input current (Amps)	3*32		5*32	6*32	40A/32A/40A/32A /40A/32A	40A/32A/40A/32A/ 40A/32A/40A/32A
Max short circuit input current (Amps)	3*40		5*40	6*40	50	
MPPT number/Max input strings number	3/6		5/10	6/12	6/12	8/16
Rated output power (Watts)	25000	30000	50000	60000	80000	100000
Max. output power (Watts)	27500	33000	55000	66000	88000	110000
Max. apparent output power (VA)	27500	33000	55000	66000	88000	110000
Rated grid voltage (Volts)	3/N/PE, 220/380, 230/400					
Rated grid output current (Amps)	38.0/36.1	45.6/43.3	76.0/72.2	91.2/86.6	121.6/115.5	152.0/144.3
Max. output current (Amps)	41.8	50.2	83.6	100.3	133.7	167.1
Power Factor (at rated output power)	0.8leading~0.8lagging					
THDi (at rated output power)	<3%					
Rated grid frequency (Hertz)	50/60					
Max.efficiency	98.5%		98.7%		98.5%	
EU efficiency	98.1%		98.3%		98.0%	
Dimensions (W*H*D)	647*629*252mm		691*578*338mm		1065* 585 * 363 mm	1183* 585 * 363 mm
Weight	38.2kg		54.5kg		79.5kg	93kg
Topology	Transformerless					
Self consumption (night)	< 1W				<2W	
Operating ambient temperature range	-25C~+60C				-30C...+60C	
Relative humidity	0~100%					
Ingress protection	IP66					
Cooling concept	Intelligent redundant fan-cooling					
Max.operation altitude	4000m					
Safty	BIS					
DC connection	MC4 connector	MC4 connector	MC4 connector	MC4 connector	MC4 connector	MC4 connector
AC connection	OT Terminal	OT Terminal	OT Terminal (max 70 mm²)	OT Terminal (max 70 mm²)	OT Terminal (max 185 mm²)	OT Terminal (max 185 mm²)
Display	LCD, 2×20 Z	LCD, 2×20 Z	LCD, Capacitive touch buttons	LCD, Capacitive touch buttons	LCD, 2×20 Z	LCD, 2×20 Z
Communication connections	RS485, Optional: Wifi, GPRS	RS485, Optional: Wifi, GPRS	RS485/USB, Optional: Wi-Fi, GPRS	RS485/USB, Optional: Wi-Fi, GPRS	RS485, Optional: Wifi, GPRS , PLC	RS485, Optional: Wifi, GPRS , PLC

AMS Series

For Savings & Backup



Off-Grid Inverters



AMS range is a solar inverter range that intelligently uses grid and solar power. With ability to operate in a wide voltage range, AMS is the ideal starter solar solution for homes.



3 User Settable Saving Modes



Max Capacity Utilization



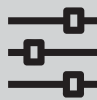
Informative LED/LCD Display



Powerful Charging on Low Voltage



3 Years Warranty



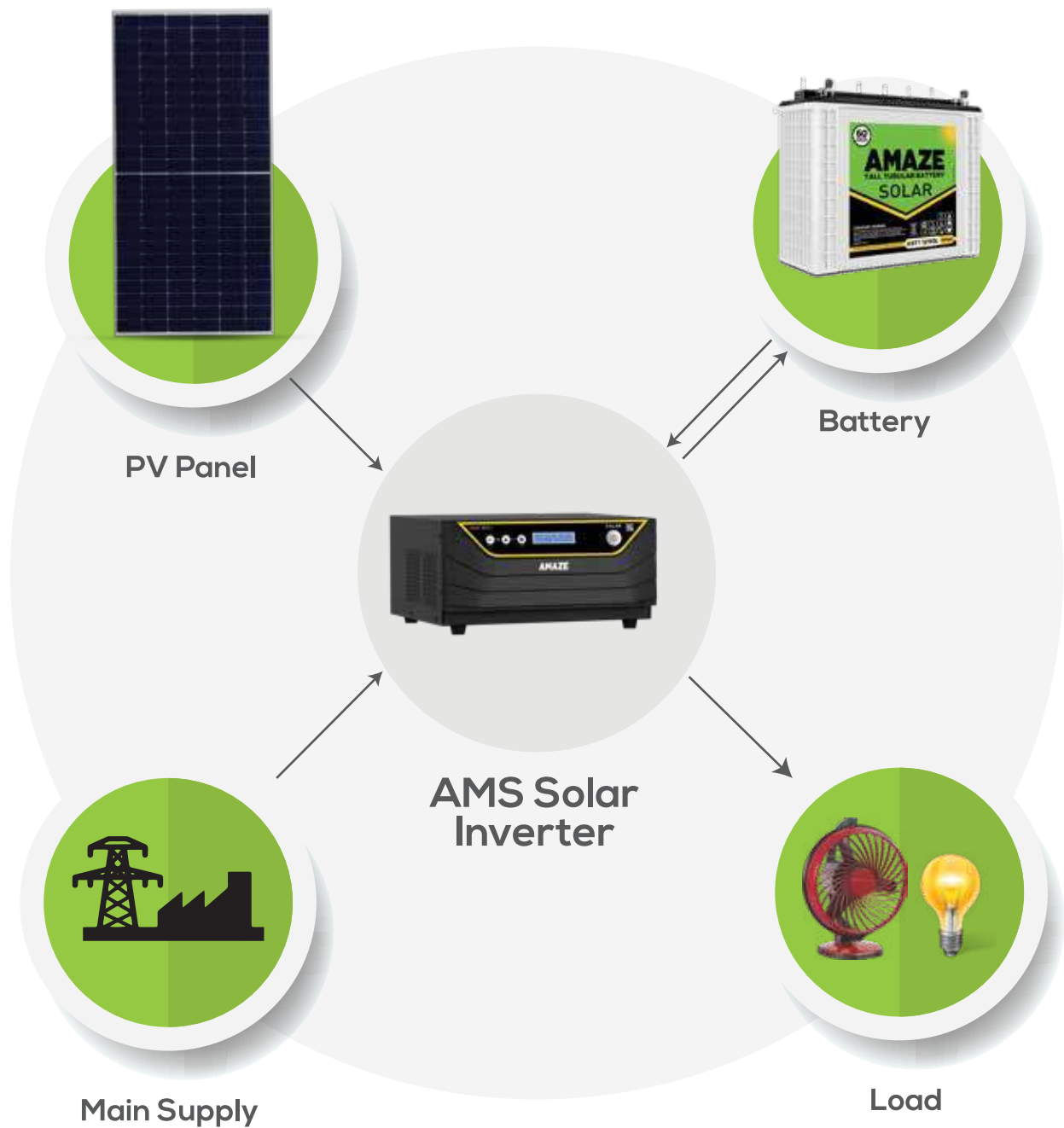
New Saving modes



Max Capacity Utilization

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
AMS 875e	150Ah x 1	170Wp x 3 Nos	3(P)
AMS 1175e	150Ah x 1	170Wp x 5 Nos	5(P)
AMS 1475e	150Ah x 1	170Wp x 6 Nos	6 (P)
AMS 1875e	150Ah x 2	590Wp x 3 Nos	3 (P)
AMS 2375	150Ah x 2	590Wp x 4 Nos.	4 (P)
AMS 2375	150Ah x 2	635Wp x 3 Nos.	3 (P)



Technical Specifications

Model Name	AMS 875e	AMS1175e	AMS1475e	AMS1875e	AMS 2375
Nominal Battery Voltage (Vdc)	1	1	1	2	2
Capacity (VA)	500VA	850VA	1100VA	1500VA	2000VA
Output Waveform	Sine wave				
SOLAR PHOTOVOLTAIC INPUT					
Charge Controller Type	PWM				
Charge Controller Rating	30A	50A	60A	40A	55A
Maximum PV Power	500Wp	850Wp	1100Wp	1500Wp	2000Wp
Input Voltage Range (Voc)	18V-25V	18V-25V	18V-25V	36V-60V	36V-60V
GRID INPUT					
Operating Voltage Range	90V-290 V				
GRID OUTPUT					
No Load Output	230V +/- 10V				
Output frequency battery mode	50 Hz +/- 0.5Hz				
Inverter Efficiency	>80%				
USER SELECTABLE SWITCHES					
Mode Selections	Solar/Solar+Grid/Grid+Solar				
Battery Type Selections	Tubular/Flat Plate/SMF				
MAINS CHARGING CURRENT					
Solar Mode	0A*				
Solar + Grid Mode	10A±2A		15A±2A		
Grid + Solar Mode	15A±2A		20A±2A		
BATTERY					
No. of Batteries	1			2	
Battery Charging Current	0A,10A,15A		0A,15A,20A		
Type of Battery Supported	Tubular/Flat Plate/SMF				
PROTECTIONS					
Overload	>105%				
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown				
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload				
DISPLAY INDICATIONS	LED INDICATIONS			LCD DISPLAY	
System ON indication	System ON LED Steady			Mains Available, Power Saving, Solar Current, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown	
Mains ON indication	ON Mains LED steady				
Charging ON indication	ON Mains LED steady + CHG. LED Steady				
Low battery pre-alarm indication	System ON LED Steady + Battery Low LED Blinking				
Low battery indication	Battery Low LED Steady				
Battery Charged Indication	ON Mains LED steady + CHG. LED Off				
Overload Indication	Overload LED Steady				
Short circuit indication in UPS mode	Overload LED Blinking/(ON Mains & Overload LED) Blinking				
DC overload indication	ON Mains LED + Charge LED Blinking				
Thermistor Open/Short Indication	ON Mains LED & Overload LED Steady				
Output Feedback open/Reverse	ON Mains LED & Overload LED Blinking				
Battery Charging Through Solar	Solar Charging LED Blinking				
Power Saving Mode	Power Saver Steady + Solar Chg. LED Blinking/Steady				
Battery Charging Through Solar + Mains	ON Mains LED + Charge LED Steady + Solar Charging LED Blinking				
No Load Shutdown	System ON LED Blinking				
Solar Over Current	Solar Charging LED Blink Faster				
GENERAL					
Net Weight (kg)	8.2 kg	11.8 kg	16.5 kg	17.1 kg	18.5 kg
Gross Weight (kg)	9.7 kg	13 kg	17.8 kg	18.5 kg	20 kg
Dimensions LxWxH (mm)	320x302x130 mm			320x275x150 mm	

Technical specifications are subject to change without prior notice.

AMS PRO series

With Proven MPPT Technology



AMS PRO is an intelligent solar inverter which comes with in-built MPPT technology helping in converting 30% more power from solar panels as compared to PWM charge controllers.



3 User Settable Saving Modes



Max Capacity Utilization



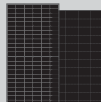
Powerful Charging on Low Voltage



Informative LCD Display



3 Years Warranty



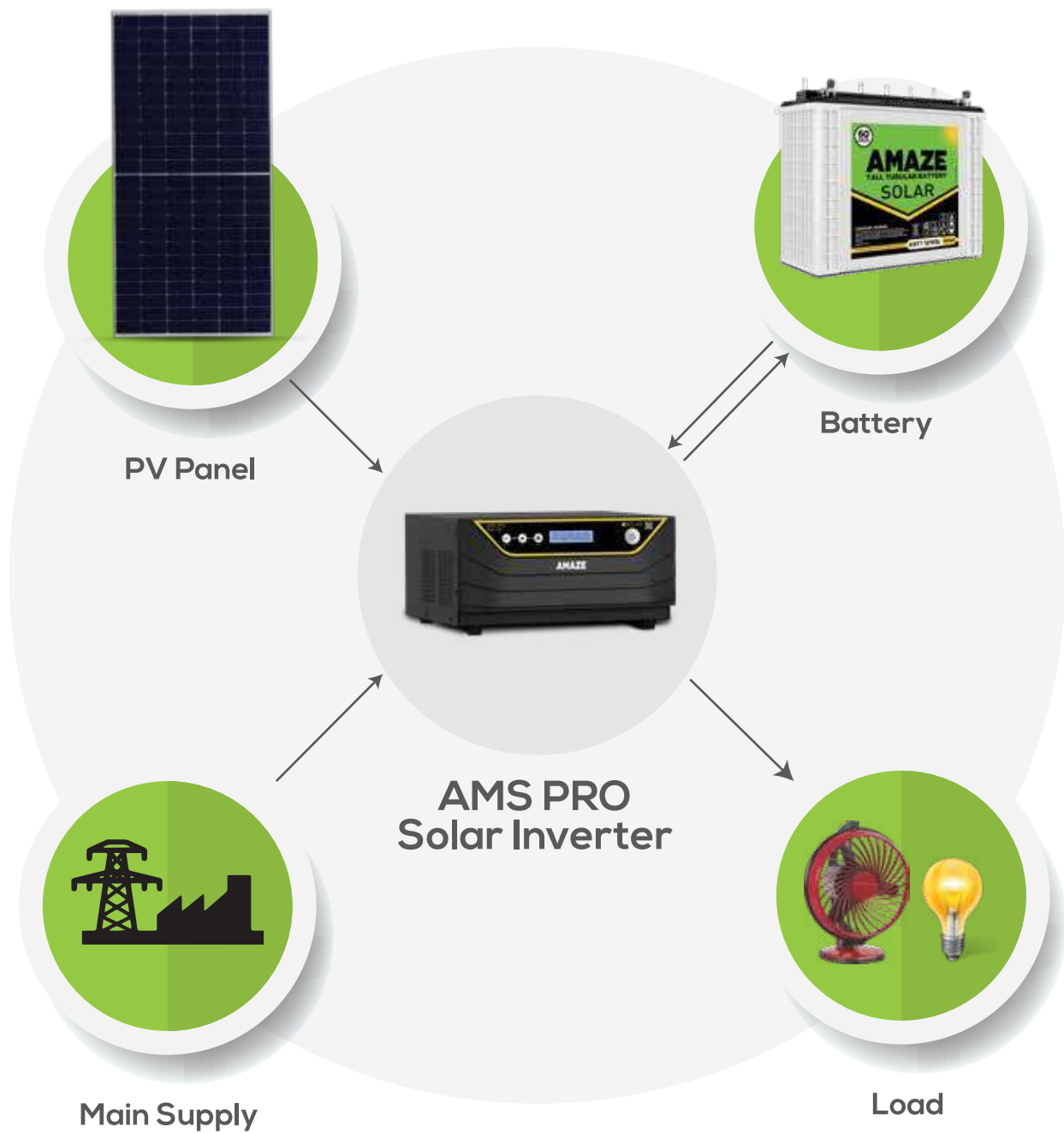
Compatible with both 12V & 24V Solar Panels



Max Capacity Utilization

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
AMS PRO 1KVA/12V	150Ah x 1	590Wp/635Wp x 2 Nos	2 (P)



Technical Specifications

Model Name	AMS PRO 1KVA/12V
Nominal Battery Voltage (Vdc)	12V
Capacity (kVA)	1 kVA
Output Waveform	Pure Sine Wave
SOLAR PHOTOVOLTAIC INPUT	
Charge Controller Type	MPPT
Maximum PV power	1000Wp
Input Voltage range (Voc)	35V-55V
GRID INPUT	
Operating Voltage Range	90V-290V
GRID OUTPUT	
No Load Output	230V +/- 10V
Output frequency battery mode	50 Hz +/- 0.5Hz
Inverter Efficiency	>80%
USER SELECTABLE FROM FRONT SWITCH	
Mode Selections	Solar/Solar+Grid/Grid+Solar
Battery Type Selections	Tubular/SMF/Flat
No Load Shutdown	Enable/Disable
MAINS CHARGING CURRENT	
Solar Mode	0A*
Solar + Grid Mode	15A±2A
Grid + Solar Mode	20A±2A
BATTERY	
No. of Batteries	1
Battery Charging Current from Solar	30A±2A
Battery Charging Current from Grid	0A/15A/20A
Type of Battery Supported	Tubular/SMF/Flat
PROTECTIONS	
Overload	>102%
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown
Alarms	Battery low pre-alarm, Battery low, Short-circuit, Overload, Faults
LCD DISPLAY	
LCD Display Messages	Mains Available, Power Saving, Solar Current, Solar Voltage, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown
ENVIRONMENT	
Ambient operating temperature	0-45°C
Storage Temperature	0-50°C
Humidity	Upto 95%(Non-Condensed)
Cooling system	Forced Cooling
STANDARD COMPLIANCE	
Certifications	BIS certified as per IS/IEC standards
GENERAL	
Net weight (Kg)	14.1 kg
Gross weight (Kg)	15.5 kg
Dimensions LxWxH (mm)	356 X 320 X 138 mm

Technical specifications are subject to change without prior notice.

PCU Series

Superior Performance



Off-Grid Inverters



PCU Series from Amaze allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, PCU is available in 5kVA.



Customisable Saving Modes



Max Capacity Utilization



User-friendly LCD Display



Smart Solar Optimization



3 Years
Warranty



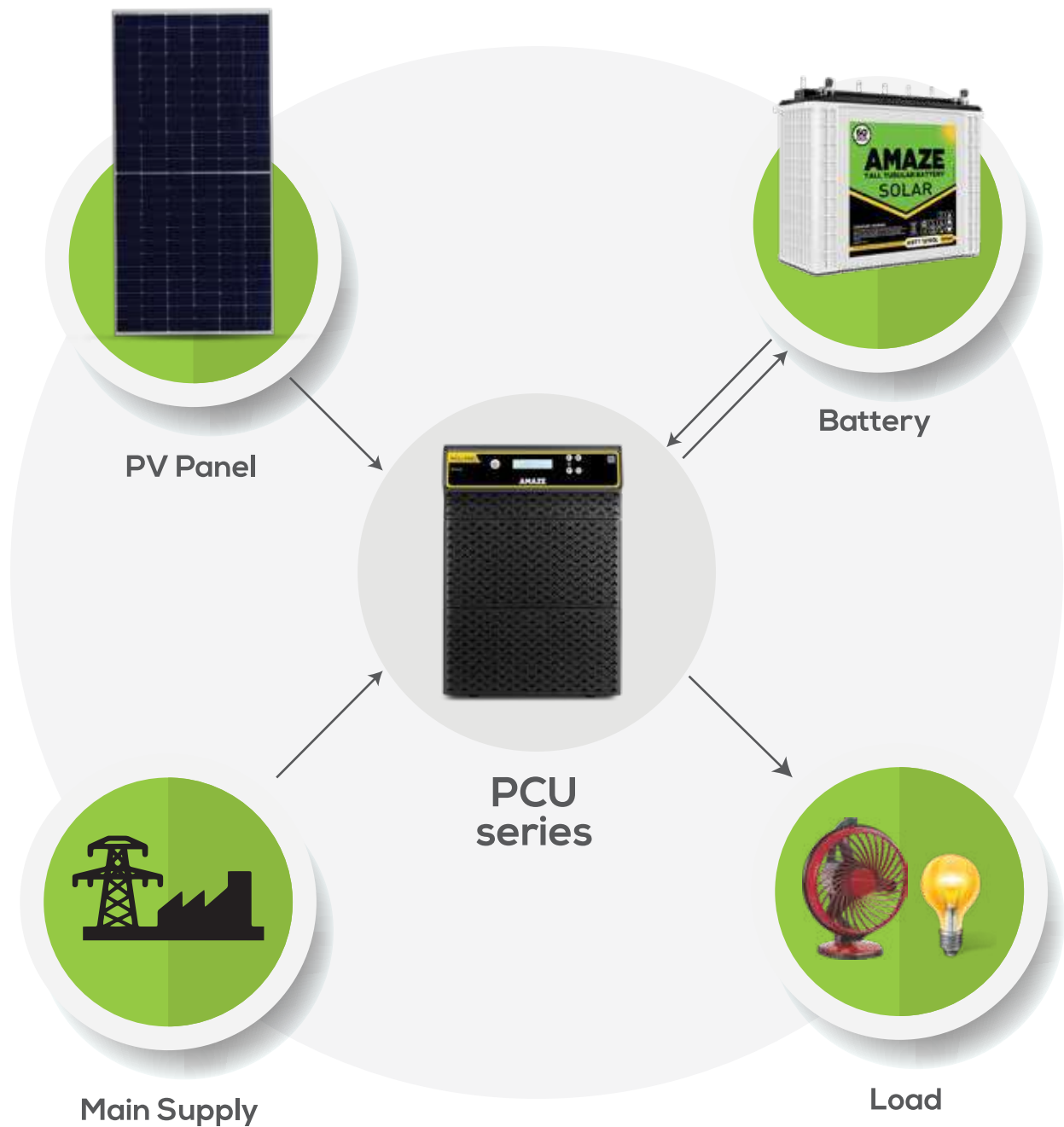
Smart Solar
optimization



User Controller
Settings

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
PCU 5KVA	150Ah x 4	590Wp x 10 Nos.	2 (S) 5 (P)
PCU 5KVA	150Ah x 4	635Wp x 8 Nos.	2 (S) 4 (P)



Technical Specifications

Model Name	PCU 5KVA
Capacity (kVA)	5kVA
Nominal Battery Voltage (Vdc)	48V
Output Waveform	Sine Wave
SOLAR PHOTOVOLTAIC INPUT	
Type of Charger	PWM
Maximum PV power	5000W
Solar Input Voltage range (Voc)	65V-120V
Charge Controller Rating	70A
GRID INPUT	
Input Supply Phases	Single Phase
Operating Voltage range	140V-290V
Nominal Grid Current (import)	18
BATTERY	
Battery Charging Current from Solar	30A
Battery Charging Current from Mains	0A,15A,20A
Battery Charging Stages	Boost, Absorption, Float
Nominal Grid Current (import)	Tubular/SMF/Flat Plate
UPS	
Switching Element	MOSFET
Control	32 Bit DSP controlled
Nominal Output Voltage (V)	230V $\pm$ 5%
Output Waveform	Pure Sine Wave
Nominal Frequency	50 Hz
Nominal Output Current	17A
Output Voltage Distortion(THD)	< 3%
Overload at nominal output voltage	>100%
SYSTEM DATA	
Transfer Time	<20 mS
Protection	Reverse Polarity; Surge Protection; Over Voltage; Current Limit; Over/Under Frequency; Short Circuit; Over Temperature
Display Parameters	Battery Side: Battery Charging/Discharging Status PV Side: Current, Power Grid Side: Voltage, Current Load Side: Load in %
Indications	System Power On, Inverter ON(Load On Inverter), Solar Available/Solar Charging, Load On Grid/Grid Charging, Battery Under Voltage, System Trip/Fail
ENVIRONMENT	
IP Protection Level	IP-20
Operating Temperature	0-45 °C
Cooling	Forced Air Cooling
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)
Max. Altitude above sea level without de-rating (m)	1000 m
GENERAL	
Dimension (WxDxH) [mm]	300 x 417 x 415
Net Weight (Kg)	38kg

Technical specifications are subject to change without prior notice.

PCU PRO Series

Superior Performance



Off-Grid Inverters



PCU Pro range from Amaze allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, PCU PRO range is available from 2kVA to 10.1kVA



Maximum Power Point Tracking



Guaranteed Safety



User-friendly LCD Display



Smart Solar Optimization



3 Years
Warranty



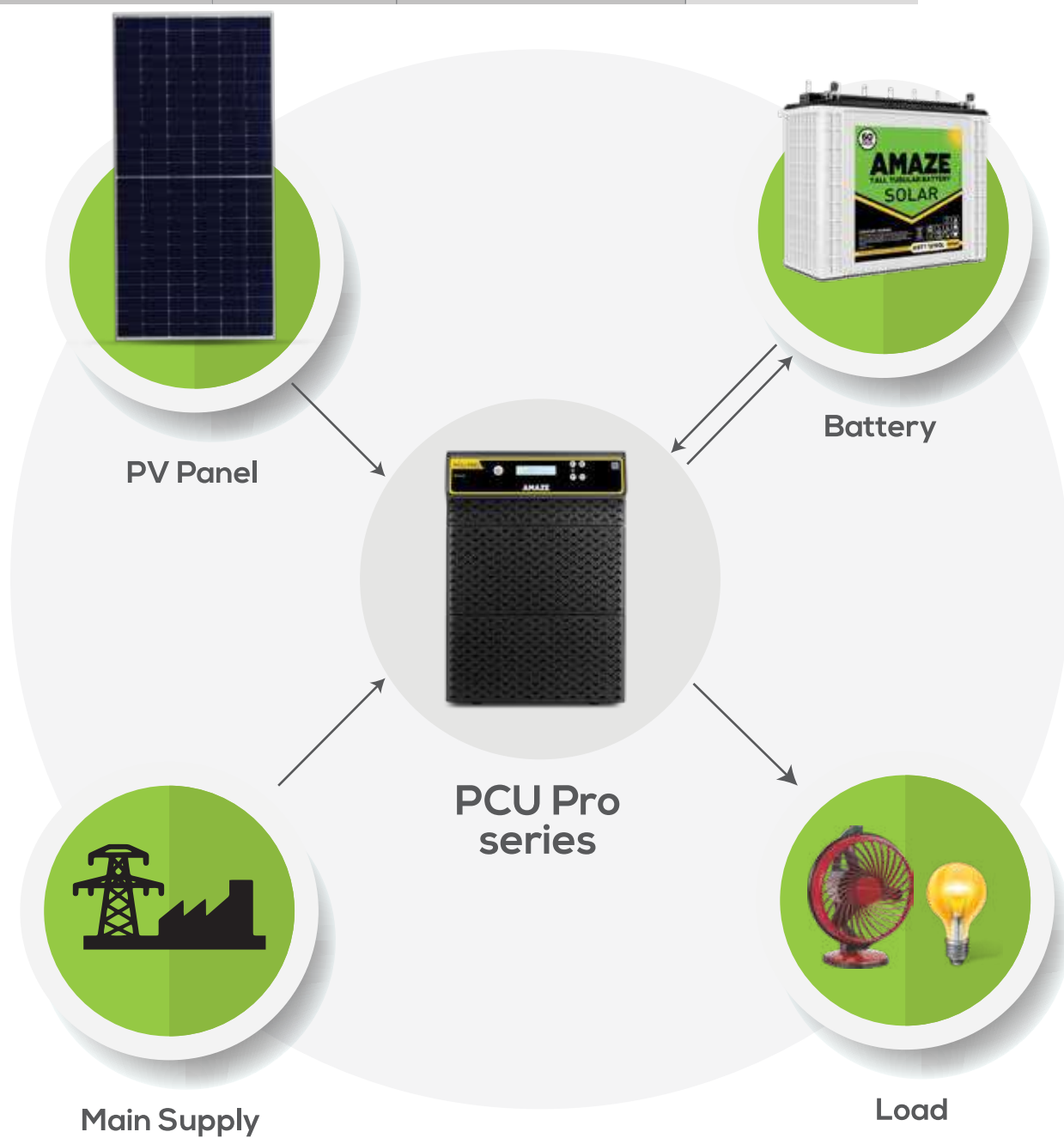
Smart Solar
optimization



User Controller
Settings

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar PCU	Solar Battery	PV Panel Watt	
PCU PRO 2KVA	150Ah x 2	590Wp x 4 Nos.	2(S) 2(P)
PCU PRO 2KVA	150Ah x 2	635Wp x 4 Nos.	2(S) 2(P)
PCU PRO 3KVA	150Ah x 3	590Wp x 6 Nos.	2(S) 3(P)
PCU PRO 3KVA	150Ah x 3	635Wp x 4 Nos.	2(S) 2(P)
PCU PRO 5KVA	150Ah x 4	590Wp x 9 Nos.	3(S) 3(P)
PCU PRO 5KVA	150Ah x 4	635Wp x 8 Nos.	4(S) 2(P)
PCU PRO 7.5KVA	150Ah x 8	590Wp x 14 Nos.	7(S) 2(P)
PCU PRO 7.5KVA	150Ah x 8	635Wp x 12 Nos.	6(S) 2(P)
PCU PRO 10.1KVA	150Ah x 10	590Wp x 18 Nos.	6(S) 3(P)
PCU PRO 10.1KVA	150Ah x 10	635Wp x 16Nos.	8(S) 2(P)



Technical Specifications

Model Name	PCU PRO 2KVA	PCU PRO 3KVA
Capacity (kVA)	2kVA	3kVA
Nominal Battery Voltage (Vdc)	24V	36V
Output Waveform	Sinewave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	MPPT	
Maximum PV power	2000W	3000W
Solar Input Voltage (Voc)	55V-107V	75V-150V
Solar Input Voltage range (Vmp)	45V-85V	60V-120V
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phase	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	110V-280Vac	
BATTERY		
No. of Batteries	2	3
Battery Charging Current from Solar	30A	
Battery Charging Current from Grid	0A, 14A, 17A, 20A	
Charging Stages	Boost, Absorption, Float	
Type of Battery	Tubular/SMF/Flat	
INVERTER		
Switching Element	MOSFET	
Control	16 Bit DSP controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Supply Phase	1 Phase 2 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	7.5A	11A
Output Voltage Distortion(THD)	≤ 3%	
SYSTEM DATA		
Transfer Time	≤20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP20	
Operating Temperature	0-45 °C	
Storage Temperature	0-50°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	396x300x270	300x432x429
Net Weight (kg)	27.7kg	31.5kg

Technical specifications are subject to change without prior notice.

Technical Specifications

Model Name	PCU PRO 5KVA
Capacity (kVA)	5kVA
Nominal Battery Voltage (Vdc)	48V
Output Waveform	Sinewave
SOLAR PHOTOVOLTAIC INPUT	
Type of Charger	MPPT
Maximum PV power	5000W
Solar Input Voltage (Voc)	130V-220V
Solar Input Voltage range (Vmp)	110V-180V
No. of MPPT Channels	1
GRID INPUT	
Input Supply Phase	Single Phase
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac
Mains mode (Unregulated UPS Mode)	140V-280V
BATTERY	
No. of Batteries	4
Battery Charging Current from Solar	30A
Battery Charging Current from Grid	0A, 4A-20A (user settable)
Charging Stages	Boost, Absorption, Float
Type of Battery	Tubular/SMF/Flat
INVERTER	
Switching Element	MOSFET
Control	32 Bit DSP Controlled
Nominal Output Voltage (V)	230V $\pm$ 5%
Output Supply Phase	1 Phase 2 Wire
Nominal Frequency	50 Hz
Nominal Output Current	17.5A+/-1A
Output Voltage Distortion(THD)	$\leq$ 5%
SYSTEM DATA	
Transfer Time	<20 mS
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode
ENVIRONMENT	
IP Protection Level	IP20
Operating Temperature	0-45 °C
Storage Temperature	0-50°C
Cooling	Forced Air Cooling
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)
GENERAL	
Dimension (L*W*H) [mm]	511x300x484
Net Weight (kg)	54 kg

Technical specifications are subject to change without prior notice.

Technical Specifications

Model Name	PCU PRO 7.5KVA	PCU PRO 10.1KVA
Capacity (kVA)	7.5kVA	10.1kVA
Nominal Battery Voltage (Vdc)	96V	120V
Output Waveform	Sinewave	
SOLAR PHOTOVOLTAIC INPUT		
Type of Charger	MPPT	
Maximum PV power	7500W	10000W
Solar Input Voltage (Voc)	250V-400V	200V-400V
Solar Input Voltage range (Vmp)	200V-400V	150V-320V
No. of MPPT Channels	1	
GRID INPUT		
Input Supply Phase	Single Phase	
Input Voltage Mains mode (Regulated UPS Mode)	180-260 Vac	
Mains mode (Unregulated UPS Mode)	140V-280V	
BATTERY		
No. of Batteries	8	10
Battery Charging Current from Solar	30A	
Battery Charging Current from Grid	0A, 4A-20A (user settable)	
Charging Stages	Boost, Absorption, Float	
Type of Battery	Tubular/SMF/Flat	
INVERTER		
Switching Element	IGBT	
Control	32 Bit DSP Controlled	
Nominal Output Voltage (V)	230V ± 5%	
Output Supply Phase	1 Phase 2 Wire	
Nominal Frequency	50 Hz	
Nominal Output Current	26A+/-1A	34A+/-1A
Output Voltage Distortion(THD)	<= 5%	
SYSTEM DATA		
Transfer Time	<20 mS	
Protection	Overload Mains Load, Overload on Battery, Reverse Polarity, Short Circuit, Over Temperature, Low Battery	
Display Parameters	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
Indications	UPS On, Battery Low, Mains On, Smart Charge/ Boost Charging, Battery Charged/ Float Charge, Overload, Over Temperature Protection, Short Circuit under Battery Mode, MCB Trip/ Short Circuit in Mains Mode	
ENVIRONMENT		
IP Protection Level	IP20	
Operating Temperature	0-45 °C	
Storage Temperature	0-50°C	
Cooling	Forced Air Cooling	
Max. Relative Humidity @ 25 °C	Up to 95% (non-condensing)	
GENERAL		
Dimension (L*W*H) [mm]	690x400x500	740x400x580
Net Weight (kg)	78 kg	101 kg

Technical specifications are subject to change without prior notice.

AMP 3575

Superior Performance



Off-Grid Inverters



AMP 3575 from Amaze allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, AMP 3575 is available in 3kVA.



Customisable Saving Modes



Guaranteed Safety



User-friendly LCD Display



Smart Solar Optimization



3 Years
Warranty



Pure Sine
Wave Output

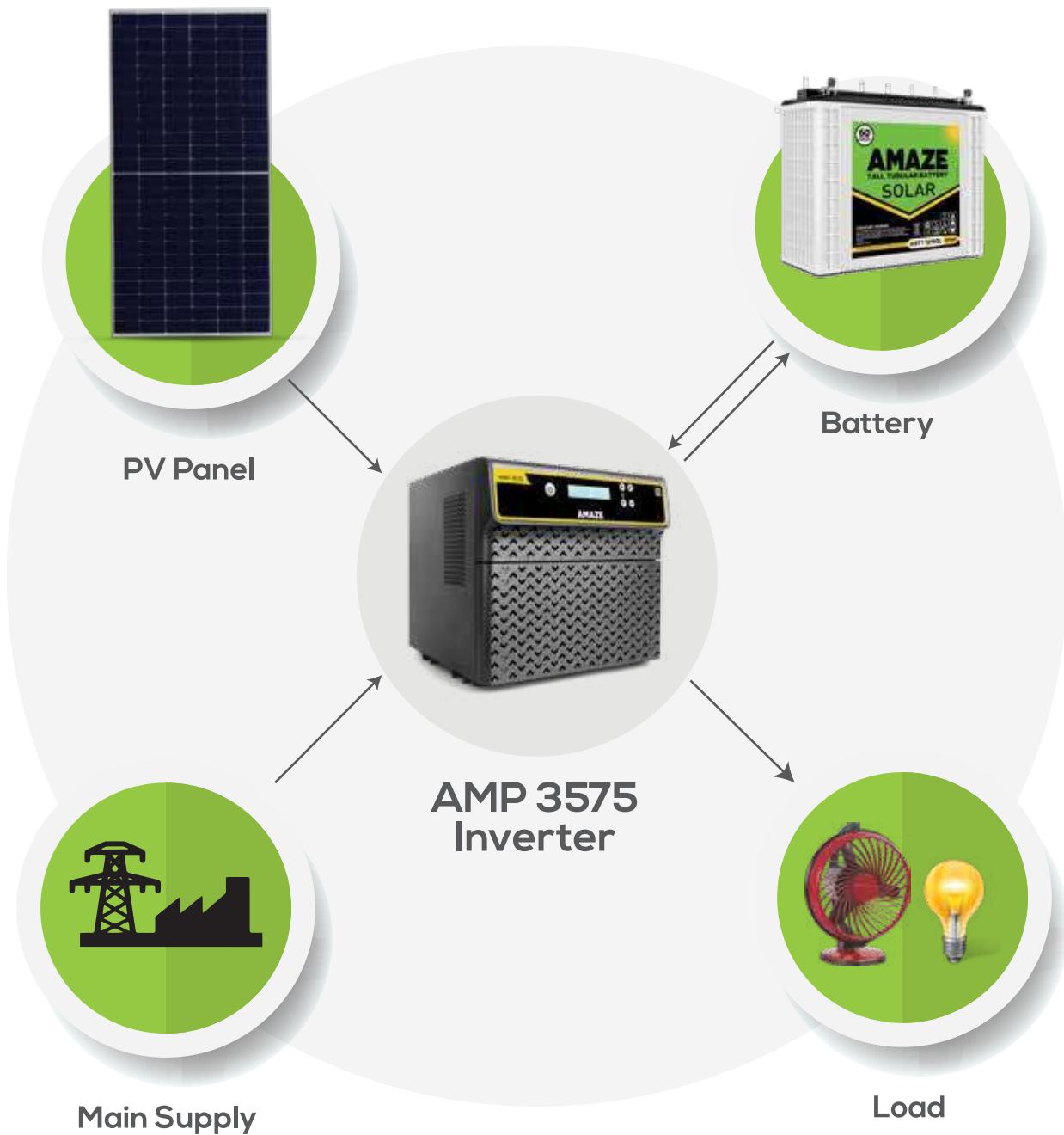


1.5 HP Submersible
pump*

*can pump and lift water from depths of upto 150ft considering maintained water

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
AMP 3575 3KVA	150Ah x 2	550Wp x 4 Nos	4 (P)
AMP 3575 3KVA	150Ah x 2	635Wp x 3 Nos	3 (P)



Technical Specifications

Model Name	AMP 3575	
Nominal Battery Voltage (Vdc)	24V	
Capacity (VA)	3000VA	
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Charge Controller Type	PWM	
Charge Controller Rating	50A	
Maximum PV Power	2000Wp	
Input Voltage range (Voc)	36V-60V	
GRID INPUT		
Operating Voltage Range	90V-290V	
GRID OUTPUT		
No Load Output	230V +/- 10V	
Output frequency battery mode	50 Hz +/- 0.5Hz	
Inverter Efficiency	>80%	
USER SELECTABLE SWITCHES		
Mode Selections	Solar/Solar+Grid/Grid+Solar	
Battery Type Selections	Tubular/Flat Plate/SMF	
MAINS CHARGING CURRENT		
Solar Mode	0A*	
Solar + Grid Mode	10A±2A	
Grid + Solar Mode	15A±2A	
BATTERY		
No. of Batteries	2	
Battery Charging Current	0A, 10A, 15A	
Type of Battery Supported	Tubular/Flat Plate/SMF	
PROTECTIONS		
Overload	>100%	
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown	
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload	
DISPLAY INDICATIONS		LCD DISPLAY
System ON indication	System ON LED Steady	Mains Available, Power Saving, Solar Current, Solar Power, System On, Grid Charging, Low Battery, Overload, No Load Shutdown
Mains ON indication	ON Mains LED steady	
Charging ON indication	ON Mains LED steady + CHG. LED Steady	
Low battery pre-alarm indication	System ON LED Steady + Battery Low LED Blinking	
Low battery indication	Battery Low LED Steady	
Battery Charged Indication	ON Mains LED steady + CHG. LED Off	
Overload Indication	Overload LED Steady	
Short circuit indication in UPS mode	Overload LED Blinking/(ON Mains & Overload LED) Blinking	
DC overload indication	ON Mains LED + Charge LED Blinking	
Thermistor Open/Short Indication	ON Mains LED & Overload LED Steady	
Output Feedback open/Reverse	ON Mains LED & Overload LED Blinking	
Battery Charging Through Solar	Solar Charging LED Blinking	
Power Saving Mode	Power Saver Steady + Solar Chg. LED Blinking/Steady	
Battery Charging Through Solar + Mains	ON Mains LED + Charge LED Steady + Solar Charging LED Blinking	
No Load Shutdown	System ON LED Blinking	
Solar Over Current	Solar Charging LED Blink Faster	
GENERAL		
Net Weight (Kg)	24.2 kg	
Gross weight (Kg)	25.7 kg	
Dimensions LxWxH (mm)	300x291x284mm	

Technical specifications are subject to change without prior notice.

AMP PRO 3575

Superior Performance

AMAZE
SOLAR



AMP PRO 3575 from Amaze allows smart management of Solar Power, Grid Supply and Battery to deliver uninterrupted power for all electrical applications. Designed for high performance against the typically tough Indian grid conditions, AMP PRO 3575 is available in 3kVA.



3 User Settable Saving Modes



Maximum Power Point Tracking



User-friendly LCD Display



Smart Solar Optimization



**3 Years
Warranty**



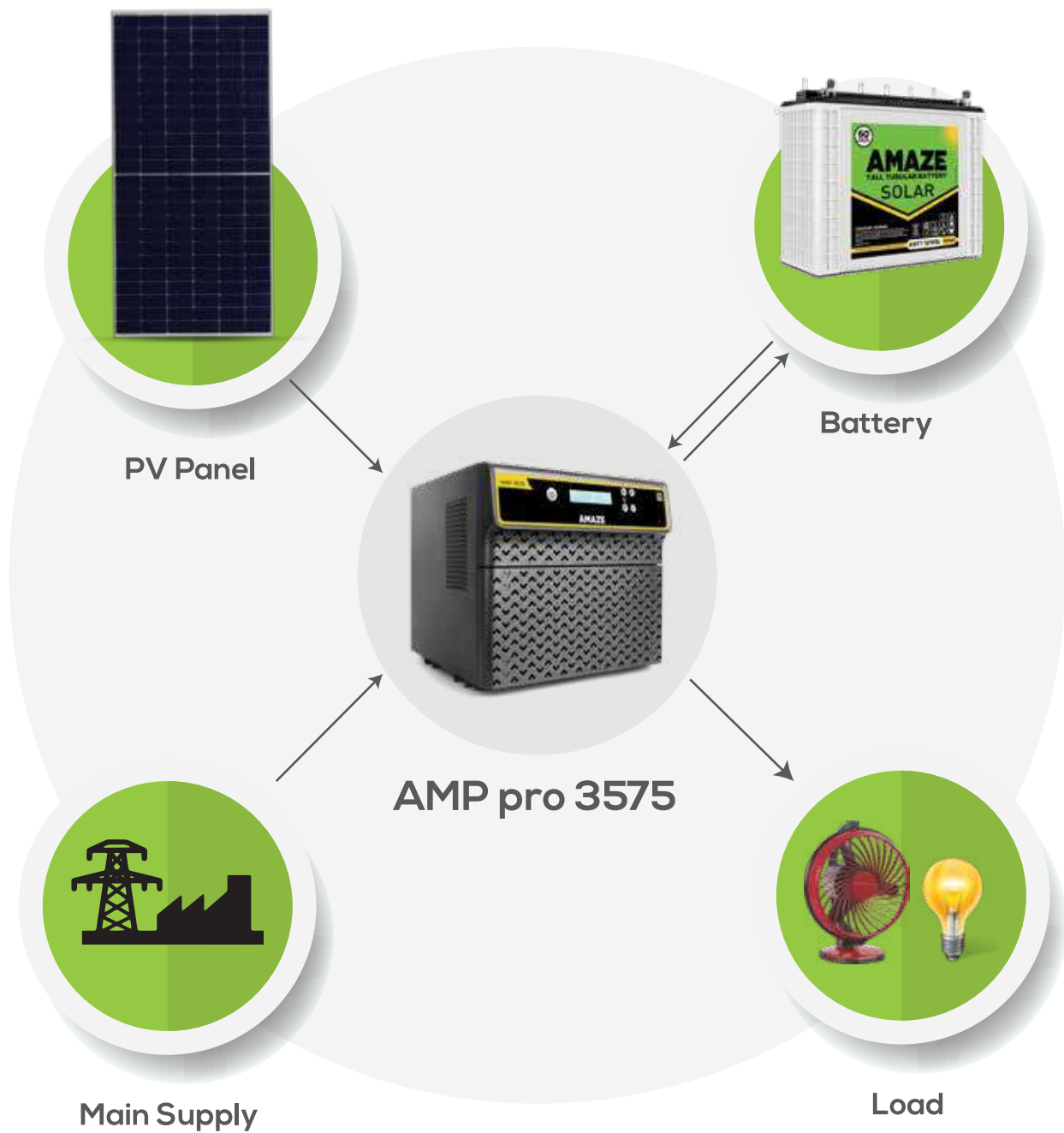
**Pure Sine
Wave Output**



**1.5 HP Submersible
pump***

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Solar Inverter	Solar Battery	PV Panel Watt	
AMP PRO 3575	150Ah x 2	590Wp x 4 Nos	2 (S) 2 (P)
AMP PRO 3575	150Ah x 2	635Wp x 4 Nos	2 (S) 2 (P)



Technical Specifications

Model Name	AMP PRO 3575	
Nominal Battery Voltage (Vdc)	24V	
Capacity (VA)	3000VA	
Output Waveform	Sine Wave	
SOLAR PHOTOVOLTAIC INPUT		
Charge Controller Type	MPPT	
Charge Controller Rating	50A	
Maximum PV Power	2000Wp	
Input Voltage range (Voc)	55V-107V	
GRID INPUT		
Operating Voltage Range	90V-290V	
GRID OUTPUT		
No Load Output	230V +/- 10V	
Output frequency battery mode	50 Hz +/- 0.5Hz	
Inverter Efficiency	>80%	
USER SELECTABLE SWITCHES		
Mode Selections	Solar/Solar+Grid/Grid+Solar	
Battery Type Selections	Tubular/Flat Plate/SMF	
MAINS CHARGING CURRENT		
Solar Mode	0A*	
Solar + Grid Mode	10A±2A	
Grid + Solar Mode	15A±2A	
BATTERY		
No. of Batteries	2	
Battery Charging Current	0A, 10A, 15A	
Type of Battery Supported	Tubular/Flat Plate/SMF	
PROTECTIONS		
Overload	>100%	
Protections	Short circuit, Overload, Over temperature, Low Battery, No Load Shutdown	
Indications	Mains Available, Solar Charging, Grid Charging, Power Saving, System On, Low Battery, Overload	
DISPLAY INDICATIONS		
System ON indication	LED INDICATIONS	LCD DISPLAY
Mains ON indication	System ON LED Steady	
Charging ON indication	ON Mains LED steady	
Low battery pre-alarm indication	ON Mains LED steady + CHG. LED Steady	
Low battery indication	System ON LED Steady + Battery Low LED Blinking	
Battery Charged Indication	Battery Low LED Steady	
Overload Indication	ON Mains LED steady + CHG. LED Off	
Short circuit indication in UPS mode	Overload LED Steady	
DC overload indication	Overload LED Blinking/(ON Mains & Overload LED) Blinking	
Thermistor Open/Short Indication	ON Mains LED + Charge LED Blinking	
Output Feedback open/Reverse	ON Mains LED & Overload LED Steady	
Battery Charging Through Solar	ON Mains LED & Overload LED Blinking	
Power Saving Mode	Solar Charging LED Blinking	
Battery Charging Through Solar + Mains	Power Saver Steady + Solar Chg. LED Blinking/Steady	
No Load Shutdown	ON Mains LED + Charge LED Steady + Solar Charging LED Blinking	
Solar Over Current	System ON LED Blinking	
	Solar Charging LED Blink Faster	
GENERAL		
Net Weight (Kg)	26.18 kg	
Gross weight (Kg)	29 kg	
Dimensions LxWxH (mm)	300x410.7x309mm	

Technical specifications are subject to change without prior notice.

Hybrid TX1 Phase

Superior Performance

AMAZE
SOLAR

Hybrid Inverters



Hybrid Inverter range from Amaze is a combination of an on-grid inverter and off-grid inverter making it more versatile than other solar inverters helping in lowering your electricity bills and protecting from power outages. It can supply solar power to run your electrical appliances, store electricity in batteries required during power outages as well as export excess power generated to grid. Available in 3KVA, 4KVA & 5KVA.



**Export Excess Power
Generated & Also Get Backup**



Max Capacity Utilization



Anti-Islanding protection



Remote Monitoring



**3 Years
Warranty**



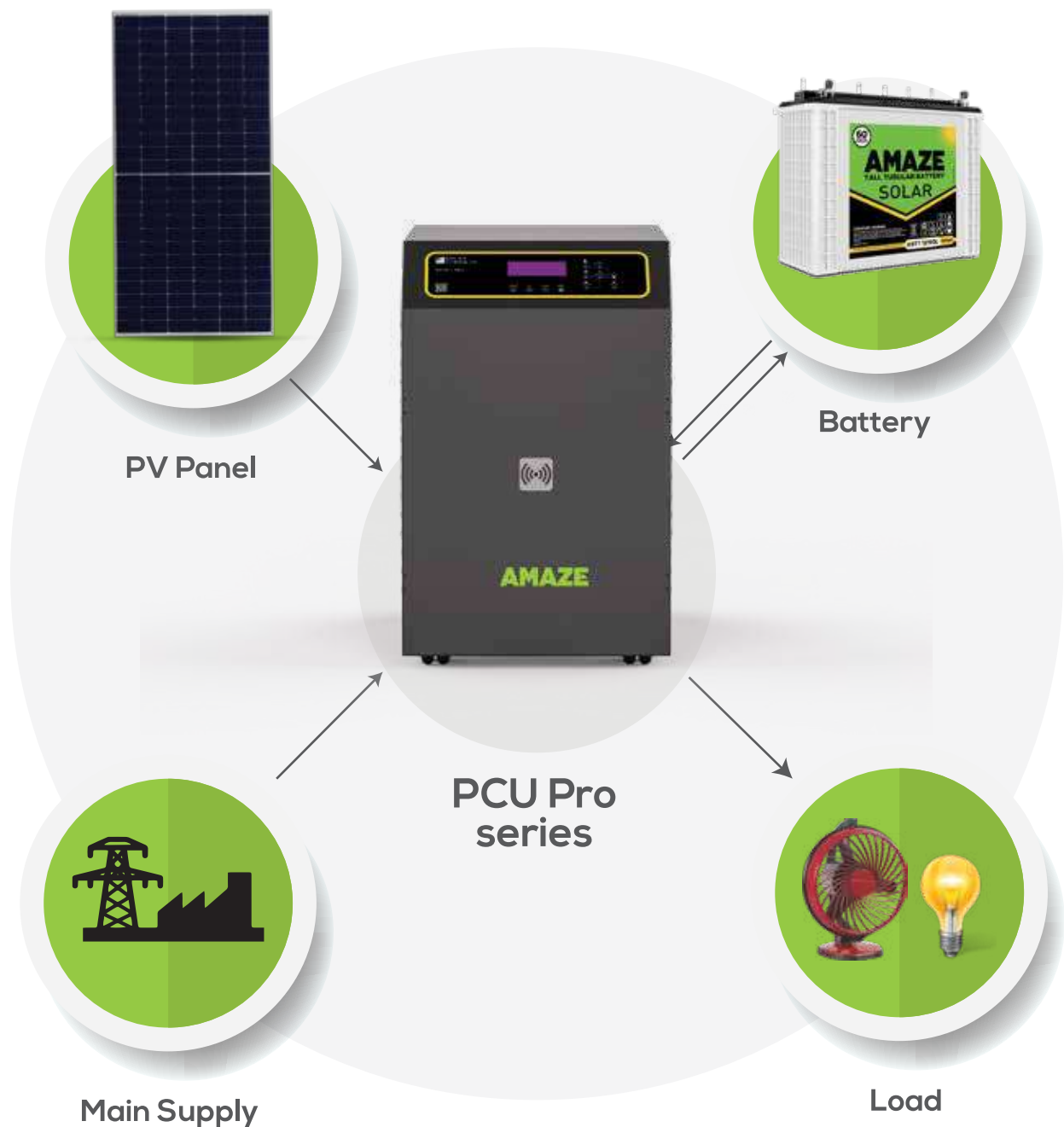
**Advanced
DSP Control**



**Inbox Wi-Fi
dongle**

Solar Estimation Chart

Solution			Panel Connection Combination (Series-Parallel)
Hybrid Inverter	Solar Battery	PV Panel Watt	
Hybrid Tx 3KVA	150Ah x 4	590Wp*6 Nos.	3 (S) 2 (P)
Hybrid Tx 3KVA	150Ah x 4	635Wp*4 Nos.	2 (S) 2 (P)
Hybrid Tx 4KVA	150Ah x 4	590Wp*8 Nos.	2 (S) 4 (P)
Hybrid Tx 4KVA	150Ah x 4	635Wp*6 Nos.	3 (S) 2 (P)
Hybrid Tx 5KVA	150Ah x 4	590Wp*9 Nos.	3 (S) 3 (P)
Hybrid Tx 5KVA	150Ah x 4	635Wp*6 Nos.	3 (S) 2 (P)



Technical Specifications

Model	HYBRID TX 3kVA		HYBRID TX 4kVA	HYBRID TX 5kVA
Nominal Battery Voltage (Vdc)	48V			
Output Waveform	Pure Sine Wave			
SOLAR PHOTOVOLTAIC INPUT				
Type of Charger	MPPT			
Maximum PV Power (kW)	3KW	4KW	5KW	
Input Voltage Range (Voc)	70V - 170 V			
Input Voltage Range (Vmp)	58V - 132 V			
Maximum I/P Current (Array)	45A	60A	60A	
Maximum MPPT Output current (A)	65A	80A	100A	
Maximum Conversion Efficiency (%)	>93%			
GRID INPUT				
Input Supply Phase	Single Phase			
Grid Voltage Range	175V - 280V			
Nominal Grid Current (import)	20A	23A	29A	
GRID OUTPUT				
Grid Current (export)	10.5 ± 2A	14A ± 2A	17A ± 2A	
BATTERY				
Nominal Battery Voltage	48VDC			
Grid Current (export)	Boost, Float, Absorption			
INVERTER				
Switching Element	MOSFET			
Control	32 Bit DSP controlled			
Nominal Output Voltage (V) & Voltage range	230 V ± 2%			
Output Supply Phase	1 Phase 2 Wire			
Output waveform	Pure Sine Wave			
Nominal Frequency (Hz)	50 Hz			
Nominal Output Current (A)	10.5A	14A	17A	
Output Voltage Distortion (THD)	<5%			
Overload at nominal output voltage	110% for 10 minutes, 125% for 1minute, 200% for 5 seconds			

AMH 3 Phase

Superior Performance



Hybrid Inverters



3 Phase Solar Hybrid TX AMH is designed with advanced technology. It adopts double transform high frequency and high-performance digital control technique (DSP), with perfect protection, super network management function, reasonable man-machine interface, and a series of precision designs to meet high-reliability requirements. Experience a power that integrates reliability, safety, and maintainability characteristics.



**Export Excess Power
Generated & Also Get Backup**



User Selectable Priority Settings



Anti-Islanding protection



Remote Monitoring



**3 Years
Warranty**



**Advanced
DSP Control**



**IGBT Based
Rectifier**

Applications



Petrol Pump



AC Unit



Cold Storage



Microgrid



Factory & Dairy
Equipment



Water Pump



ATM



Farmhouse



Primary Health
Care Center



Rural Bank



Government
Offices



Institutions



PV Panel



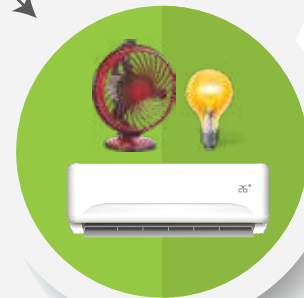
Battery



AMH 3 Phase
Inverter



Main Supply



Load

System Rating (kVA/kW)	10.5kVA/8.4kW
SOLAR	
Open circuit voltage	400V
Maximum PV Power	10.5kW
Charge Controller	MPPT Charge Controller
MPPT Voltage Range	200 - 380
Switching Element	IGBT
Type of Charger	MPPT
Charger Efficiency	>95%
GRID	
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency	50Hz ± 6%
BATTERY	
Battery Voltage	120VDC
Grid charger type	Bi-Directional
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)
Battery Type	Lead Acid/SMF
INVERTER	
Switching Element	IGBT
Output wave form	Pure Sine Wave
Output Nominal Voltage	415VAC ±2%, 3Ph
Output Frequency	50Hz ±1%
Load Power Factor	0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency	90%
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%
Galvanic isolation	Inbuilt isolation transformation inverter output
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION	
Protection	Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM	
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm	Audible alarm for fault conditions and warnings
CONFIGURATION	
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting	All main Parameters can be set through LCD Display
Bypass	Manual bypass switch available for maintenance and service
ENCLOSURE	
Degree of protection	IP 20
Cooling	Forced Air Cooling
Color	RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm	710 x 300 x 790
Netweight (Approx in Kg's)	130
ENVIRONMENT	
Temperature Operating	0-40° C
Max. Relative humidity@25° (non condensing)	Upto 95%
Max. Altitude above sea level without de-rating	upto 1000 mtr

System Rating (kVA/kW)	15kVA/12kW	20kVA/16kW
SOLAR		
Open circuit voltage	400V	500V
Maximum PV Power	15kW	20kW
Charge Controller	MPPT Charge Controller	
MPPT Voltage Range	200 - 380	300 - 480
Switching Element	IGBT	
Type of Charger	MPPT	
Charger Efficiency	>95%	
GRID		
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)	
Input Frequency	50Hz ± 6%	
BATTERY		
Battery Voltage	180VDC	240VDC
Grid charger type	Bi-Directional	
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)	
Battery Type	Lead Acid/SMF	
INVERTER		
Switching Element	IGBT	
Output wave form	Pure Sine Wave	
Output Nominal Voltage	415VAC ±2%, 3Ph	
Output Frequency	50Hz ±1%	
Load Power Factor	0.6 lag to 1 (within VA and kW rating)	
Inverter Peak Efficiency	90%	
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%	
Galvanic isolation	Inbuilt isolation transformation inverter output	
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec	
PROTECTION		
Protection	Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage	
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage	
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage: upto 1000 no's)	
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging	
Alarm	Audible alarm for fault conditions and warnings	
CONFIGURATION		
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)	
Parameter Setting	All main Parameters can be set through LCD Display	
Bypass	Manual bypass switch available for maintenance and service	
ENCLOSURE		
Degree of protection	IP 20	
Cooling	Forced Air Cooling	
Color	RAL 5013 Cobalt Blue	
Dimensions (L*W*H)mm	770 x 400 x 880	
Netweight (Approx in Kg's)	154	
ENVIRONMENT		
Temperature Operating	0-40° C	
Max. Relative humidity@25° (non condensing)	Upto 95%	
Max. Altitude above sea level without de-rating	upto 1000 mtr	

Stock Availability: 8 to 10 weeks from date of Purchase Order
*Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	25kVA/20kW
SOLAR	
Open circuit voltage	500V
Maximum PV Power	25kW
Charge Controller	MPPT Charge Controller
MPPT Voltage Range	300 – 480
Switching Element	IGBT
Type of Charger	MPPT
Charger Efficiency	>95%
GRID	
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency	50Hz ± 6%
BATTERY	
Battery Voltage	240VDC
Grid charger type	Bi-Directional
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)
Battery Type	Lead Acid/SMF
INVERTER	
Switching Element	IGBT
Output wave form	Pure Sine Wave
Output Nominal Voltage	415VAC ±2%, 3Ph
Output Frequency	50Hz ±1%
Load Power Factor	0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency	90%
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%
Galvanic isolation	Inbuilt isolation transformation inverter output
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION	
Protection	Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM	
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm	Audible alarm for fault conditions and warnings
CONFIGURATION	
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting	All main Parameters can be set through LCD Display
Bypass	Manual bypass switch available for maintenance and service
ENCLOSURE	
Degree of protection	IP 20
Cooling	Forced Air Cooling
Color	RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm	900 x 400 x 880
Netweight (Approx in Kg's)	180
ENVIRONMENT	
Temperature Operating	0-40° C
Max. Relative humidity@25° (non condensing)	Upto 95%
Max. Altitude above sea level without de-rating	upto 1000 mtr

System Rating (kVA/kW)	30kVA/24kW	40kVA/32kW	50kVA/40kW
SOLAR			
Open circuit voltage	750V		
Maximum PV Power	30kW	40kW	50kW
Charge Controller	MPPT Charge Controller		
MPPT Voltage Range	540 - 730	540 - 730	540 - 730
Switching Element	IGBT		
Type of Charger	MPPT		
Charger Efficiency	>95%		
GRID			
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)		
Input Frequency	50Hz ± 6%		
BATTERY			
Battery Voltage	360VDC		
Grid charger type	Bi-Directional		
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)		
Battery Type	Lead Acid/SMF		
INVERTER			
Switching Element	IGBT		
Output wave form	Pure Sine Wave		
Output Nominal Voltage	415VAC ±2%, 3Ph		
Output Frequency	50Hz ±1%		
Load Power Factor	0.6 lag to 1 (within VA and kW rating)		
Inverter Peak Efficiency	90%		
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%		
Galvanic isolation	Inbuilt isolation transformation inverter output		
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec		
PROTECTION			
Protection	Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage		
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage		
DISPLAY PARAMETER, LED INDICATION AND ALARM			
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)		
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging		
Alarm	Audible alarm for fault conditions and warnings		
CONFIGURATION			
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)		
Parameter Setting	All main Parameters can be set through LCD Display		
Bypass	Manual bypass switch available for maintenance and service		
ENCLOSURE			
Degree of protection	IP 20		
Cooling	Forced Air Cooling		
Color	RAL 5013 Cobalt Blue		
Dimensions (L*W*H)mm	925 x 535 x 1190		
Netweight (Approx in Kg's)	250	310	325
ENVIRONMENT			
Temperature Operating	0-40° C		
Max. Relative humidity@25° (non condensing)	Upto 95%		
Max. Altitude above sea level without de-rating	upto 1000 mtr		

Stock Availability: 8 to 10 weeks from date of Purchase Order
*Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	60kVA/48kW	80kVA/64kW
SOLAR		
Open circuit voltage	750V	750V
Maximum PV Power	60kW	80kW
Charge Controller	MPPT Charge Controller	
MPPT Voltage Range	540 – 730	540 – 730
Switching Element	IGBT	
Type of Charger	MPPT	
Charger Efficiency	>95%	
GRID		
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)	
Input Frequency	50Hz ± 6%	
BATTERY		
Battery Voltage	360VDC	
Grid charger type	Bi-Directional	
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)	
Battery Type	Lead Acid/SMF	
INVERTER		
Switching Element	IGBT	
Output wave form	Pure Sine Wave	
Output Nominal Voltage	415VAC ±2%, 3Ph	
Output Fequency	50Hz ±1%	
Load Power Factor	0.6 lag to 1 (within VA and kW rating)	
Inverter Peak Efficiency	90%	
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%	
Galvanic isolation	Inbuilt isolation transformation inverter output	
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec	
PROTECTION		
Protection	Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage	
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage	
DISPLAY PARAMETER, LED INDICATION AND ALARM		
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)	
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging	
Alarm	Audible alarm for fault conditions and warnings	
CONFIGURATION		
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)	
Parameter Setting	All main Parameters can be set through LCD Display	
Bypass	Manual bypass switch available for maintenance and service	
ENCLOSURE		
Degree of protection	IP 20	
Cooling	Forced Air Cooling	
Color	RAL 5013 Cobalt Blue	
Dimensions (L*W*H)mm	1000 x 700 x 1500	
Netweight (Approx in Kg's)	510	550
ENVIRONMENT		
Temperature Operating	0-40° C	
Max. Relative humidity@25° (non condensing)	Upto 95%	
Max. Altitude above sea level without de-rating	upto 1000 mtr	

System Rating (kVA/kW)	105KVA/84kW		120kVA/96kW	150kVA/120kW	200kVA/160kW
SOLAR					
Open circuit voltage	750V				1150V
Maximum PV Power	105kW	120kW	150kW	200kW	
Charge Controller	MPPT Charge Controller				
MPPT Voltage Range	700 - 830	700 - 830	700 - 830	950 - 1120	
Switching Element	IGBT				
Type of Charger	MPPT				
Charger Efficiency	>95%				
GRID					
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)				
Input Frequency	50Hz ± 6%				
BATTERY					
Battery Voltage	480VDC				
Grid charger type	Bi-Directional				
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)				
Battery Type	Lead Acid/SMF				
INVERTER					
Switching Element	IGBT				
Output wave form	Pure Sine Wave				
Output Nominal Voltage	415VAC ±2%, 3Ph				
Output Fequency	50Hz ±1%				
Load Power Factor	0.6 lag to 1 (within VA and kW rating)				
Inverter Peak Efficiency	90%				
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%				
Galvanic isolation	Inbuilt isolation transformation inverter output				
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec				
PROTECTION					
Protection	Input Under and Over voltage, Input Under and Over Fequency, Output Overload, Output short circuit, Output over and Under Voltage				
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage				
DISPLAY PARAMETER, LED INDICATION AND ALARM					
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage:upto 1000 no's)				
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging				
Alarm	Audible alarm for fault conditions and warnings				
CONFIGURATION					
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)				
Parameter Setting	All main Parameters can be set through LCD Display				
Bypass	Manual bypass switch available for maintenance and service				
ENCLOSURE					
Degree of protection	IP 20				
Cooling	Forced Air Cooling				
Color	RAL 5013 Cobalt Blue				
Dimensions (L*W*H)mm	1000 x 1000 x 1700				
Netweight (Approx in Kg's)	710	780	840	910	
ENVIRONMENT					
Temperature Operating	0-40° C				
Max. Relative humidity@25° (non condensing)	Upto 95%				
Max. Altitude above sea level without de-rating	upto 1000 mtr				

Stock Availability: 8 to 10 weeks from date of Purchase Order
*Technical specifications are subject to change without prior notice

System Rating (kVA/kW)	250kVA/200kW
SOLAR	
Open circuit voltage	1150V
Maximum PV Power	250kW
Charge Controller	MPPT Charge Controller
MPPT Voltage Range	950 - 1120
Switching Element	IGBT
Type of Charger	MPPT
Charger Efficiency	>95%
GRID	
Input Supply	415 VAC, 3 Phase, 4 wire (+15% , -15%)
Input Frequency	50Hz ± 6%
BATTERY	
Battery Voltage	672VDC
Grid charger type	Bi-Directional
Charging current from grid	15A for 150Ah battery/20A for 200Ah Battery or, as required by any other battery (up to inverter kVA Capacity)
Battery Type	Lead Acid/SMF
INVERTER	
Switching Element	IGBT
Output wave form	Pure Sine Wave
Output Nominal Voltage	415VAC ±2%, 3Ph
Output Frequency	50Hz ±1%
Load Power Factor	0.6 lag to 1 (within VA and kW rating)
Inverter Peak Efficiency	90%
Vth with 100% linear load	Mains mode: Same as Grid inverter mode <3%
Galvanic isolation	Inbuilt isolation transformation inverter output
Overload conditions	110% for 60 sec / 125% for 10 sec/150% for 1 sec
PROTECTION	
Protection	Input Under and Over voltage, Input Under and Over Frequency, Output Overload, Output short circuit, Output over and Under Voltage
	Over Temperature Array Reverse Polarity, Battery Over and Under voltage
DISPLAY PARAMETER, LED INDICATION AND ALARM	
Display Parameter	Grid-Voltage Current Power Output voltage, Current total Power, Load Percentage. Battery - voltage, current DC Power Solar-Voltage, Current Power. Statistics - KWH (Grid import, Grid Export, Inverter Battery IN and OUT, Solar) Event log (5 No's/option USB Storage: upto 1000 no's)
LED Indication	Grid ON/OFF, Grid Static switch ON/OFF, inverter ON/OFF, inverter static Switch ON/OFF, Load ON/OFF, Battery Charging and Discharging
Alarm	Audible alarm for fault conditions and warnings
CONFIGURATION	
Modes	2 different priority modes selectable from display (Solar-Battery-Grid) & (Solar-Grid-Battery)
Parameter Setting	All main Parameters can be set through LCD Display
Bypass	Manual bypass switch available for maintenance and service
ENCLOSURE	
Degree of protection	IP 20
Cooling	Forced Air Cooling
Color	RAL 5013 Cobalt Blue
Dimensions (L*W*H)mm	1260 x 1104 x 1850
Netweight (Approx in Kg's)	1200
ENVIRONMENT	
Temperature Operating	0-40° C
Max. Relative humidity@25° (non condensing)	Upto 95%
Max. Altitude above sea level without de-rating	upto 1000 mtr

Hybrid Tx Xcel

Perfect Blend of Safety and Efficiency



Hybrid Inverters



Amaze Hybrid Tx MAX Three Phase Inverter is designed with advanced technology. It adopts high-performance digital control technique (DSP), with perfect protection, advance energy management function, reasonable human machine interface and a series of precision design that meets all high reliability requirements experience a power that integrates reliability, safety & maintenance characteristics of a new generation.



Export excess PV power to grid



Inbuilt zero export device



LI BESS (Amaze Make) compatible



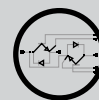
***Without battery operational**



3 Years Warranty



Advanced DSP Control



IGBT Based Rectifier

Technical Specifications

Rating(kVA)	10kVA/120V	15kVA/180V	20kVA/240V	25kVA/240V	30kVA/360V
Grid					
Input Wiring	3PH Five Wire (3 PH + N + E)				
Input Neutral Requirement	Yes				
Nominal Voltage	330V To 475V FOR 3PH				
Grid Frequency Sync Range	50 Hz (1.6%)				
Unity Power Factor For Grid Charging	> 0.9				
Operating Condition	Continuous				
Self-consumption	Up To 4%				
Charger Peak Efficiency	Upto 85%				
DG Compatibility	YES (Double Of Inverter Capacity)				
Grid Compatibility	Yes Same As Inverter Capacity				
Input Voltage Distortion Allowed	Less Than 3%				
Grid Charger Capacity	50% of kVA Rating				
Solar					
Charger Type	MPPT				
Max PV Connection In KWp	10	15	20	25	30
Max PV Voltage (VOC)	300V	450V	500V	500V	680V
Max I/P Amps Per Channel (Amps)	83	82	83	10.4	83
No Of MPPT Channel			1		
Panel Reverse Protection	Yes				
Solar Charger converter Efficiency	Up To 95%				
Battery					
Nominal Battery Voltage (VDC)	120	180	240		360
Battery Buffer Setting	DC Voltage Selectable Through Key Pad				
Grid Charging Current	Settable Through Key Pad				
Temperature Compensated Charging	Yes				
Battery Charging Voltage	Selectable From LCD Display				
Type & No. Of Cells	Lead Acid / VRLA / Ni-cd/ (Lithium Ion)				
BMS Compatible	Yes				
Battery Less Feature					
MPPT Voltage Range for Batteryless mode	200-250V	300-400V			400-550V
O/P Current Per Phase for Battery less mode	75% of Max O/P current				
External UPS/Inverter Rating	1 KVA with battery				
Output					
Max O/P Current Per Phase	11.6 Amp	17.4 Amp	23.2 Amp	29 Amp	34.8 Amp

Contd...

Rating(kVA)	10kVA/120V	15kVA/18 0V	20kVA/24 0V	25kVA/24 0V	30kVA/360V
Output Voltage (Inverter Mode)	400V AC ± 2%				
Output Frequency (Free Running)	50 Hz 1 1%				
Output Waveform	Pure Sine Wave				
Peak Inverter Efficiency (Full Load)	Upto 90%				
Total Harmonic Distortion	Upto 3% At Linear Load				
Overload Capacity	1 25% For 60 sec, 150% For 5 Sec				
Changeover Time (Full Load)	j5mSec				
DC To AC Galvanic Isolation	In Built Isolation Transformer At Inverter Output				
Anti Islanding Function	In Compliance With IEC 62116				
Auto Bypass Feature	Yes				
Duty	Continuous				
Configuration					
Modes Available	Grid Saving, Battery Backup, Export, Battery Less				
Power Export To Grid	Enable / Disable Option Available				
Power Import From Grid	Enable / Disable Option Available				
Environmental					
Acoustic Noise Level From 1 M	j 65 dB	≤ 68 dB			
Operating Temperature	0 To 45 °C(Dust Free Cooled And Dry Environment)				
Storage Temperature	-10 Deg C To 5 5 Deg C				
Relative Humidity	Up To 95 % (Non Condensing)				
Altitude	Upto 1000 Meter				
Physical					
Enclosure Protection Grade	IP 20				
Cooling	Forced Air				
Colour	RAL5011				
Cable Entry	Bottom				
Parameters Displayed On LCD					
Mains	Voltage, Current, Frequency, KW, kVA, Import KWh , Export KWh, PF				
Inverter	Voltage, Current, Frequency, kVA, Load%				
Output	Voltage, Frequency				
Solar	Solar Voltage, Solar Current, Power(KW), Solar Energy (KW h)				
Battery	Voltage, Current, SOC				
Protections					
Electrical	Circuit Breaker And Fuse				
Alarm	Alarms Are Available For Fault Condition.				
Input	Input Under Voltage, Input Over Voltage, Under / Over Frequency				
Inverter	Output Under Voltage, Out put Over Voltage, Overload, Output Short Circuit, Inverter Over Temperature				
Solar	Solar High/Low, MOV, Reverse PV Panel Protection				
Battery	Battery Low , Battery Over				

Contd...

Rating(kVA)	10kVA/120V	15kVA/18 0V	20kVA/24 0V	25kVA/24 0V	30kVA/360V
Connectivity					
Communication	RS 4 85 or Wi-Fi Dongle				
Protocol	MODBUS RTU				
LCD with Backlight & Tactile Key Pad Interface	Yes				
Standard	BIS IS 16169 : 2014 / IEC 62116 : 2008,IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011				
Earthing Connection (R ef. Is 3 043)	Earth stud AC/DC separate				
Dimensions (In MM) Tentative Dimension					
kVA Rating	10	15	20	25	30
Width (W)	450	450	450	450	600
Depth (D)	800	800	800	900	10 00
Height (H)	800	900	900	900	13 00
Weight (Kg) APPROX.	17 0	22 0	24 0	25 0	500
Wi-Fi Based Remote Monitoring	Provided				
1. Specifications are subjected to change without noticed.					
2. Not for Life Support & Mission Critical Application.					

Note : Specification may change without prior notice.
Please follow the installation guidelines to avail standard warranty.

Solar Battery

Power of Performance

AMAZE
SOLAR



Amaze Solar Batteries are C10 rated deep cycle batteries specially designed for longer back up.



**Very Low
Maintenance**



Long Design Life



**High Temperature
Performance**



**Up to 6 Years
Warranty**



**Tubular
Technology
for longer life**



**Rugged
Performance**

Technical Specifications

Model Name	Nominal Voltage	C10 Capacity	Length ± 3	Width ± 3	Height up to float top ±3	Dry Weight	Filled Weight	Electrolyte VoAMSe ±5%
	V	Ah	mm	mm	mm	Kg	Kg	Litre
ASTT 12150L	12	150	502	191	440	34.5 (±3%)	60 (±3%)	20.6
ASTT 12150H	12	150	502	191	440	34.5 (±3%)	60 (±3%)	20.6
ASTT 12200L	12	200	502	191	440	40.5 (±5%)	67.5 (±5%)	21.8
ASTT 12200H	12	200	502	191	440	46.5 (±5%)	70.5 (±5%)	19.4

Technical specifications are subject to change without prior notice.

*STC - Standard Test Conditions

Charge Controller

Easy upgrade to Solar

AMAZE
SOLAR

Amaze Charge controllers provide an easy upgrade to solar for existing users of DC loads.



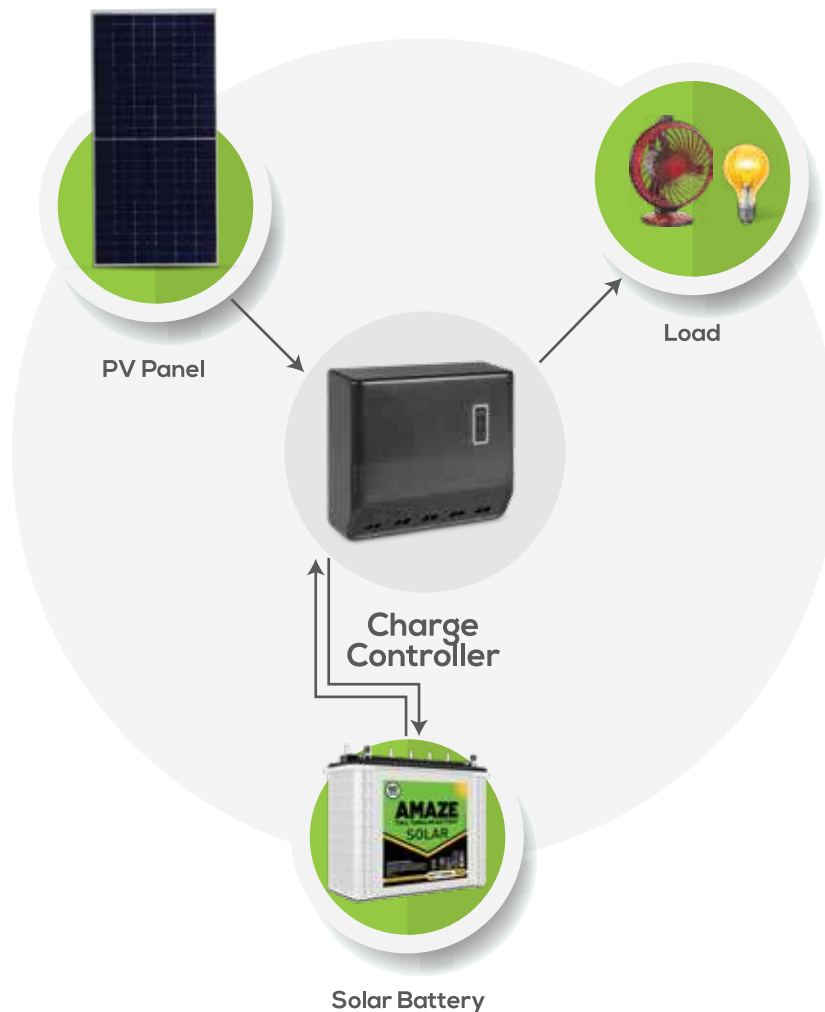
**Protection Against Over-Charge
and Reverse Current**



USB Port



1 Year Warranty



Technical Specifications

Model Name	AMS SCC1206	AMS SCC1210	AMS SCC1220
Charge Controller Type	PWM		
Charge Controller Rating	6A @ 12V	10A @ 12V / 24V	20A @ 12V / 24V
Maximum PV Power	125Wp @ 12V	200Wp @ 12V/400Wp @ 24V	400Wp @ 12V/800Wp @ 24V
Input Voltage range (Voc)	17-25	17-25 @ 12V, 36-50 @ 24V	
Input Voltage range (Vmp)	15-21	15-21 @ 12V, 31-39 @ 24V	
LOW VOLTAGE DISCONNECT			
A) By state of charge	N.A	Available	
B) Controlled by voltage	Available		
Self consumption	Less than 10mA		
EFFICIENCY:			
A) Charging	98.50%		96%
B) Load	98%		96%
Operating temperature range	0°C to 50°C		
Power connections	30 Ampere Terminal		
Battery type selection	Lead Acid & SMF		
Enclosure	ABS Plastic, IP21		
Dimensions (mm)	40 x 60 x 135 (L x W x H)		
Wire size	2.5 sq. mm	4 sq. mm	6 sq. mm
Net weight	275 gms	300 gms	350 gms

Technical specifications are subject to change without prior notice.

WI-FI DONGLE

Seamless Connectivity



Makes your solar inverter smart with connectivity option, assisting in viewing and tracking solar generation, battery backup, charging time, fault indications, etc. (Products Supported: GTIs, PCU PRO)



Real-Time Monitoring



Plug and Play



Status Indicators



Convenient Debugging

Scan & Install
AMAZE
POWER X
App



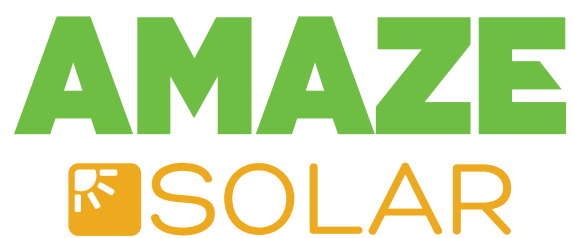
Android
AMAZE
POWER X

Technical Specifications

Model Name	LYNC X	S3-Wi-Fi-ST	S4-Wi-Fi-ST
ELECTRICAL CHARACTERISTICS			
DC Supply	5V	5V	5V
Current consumption	0.13 Amp	<0.4 Amp	<0.4 Amp
Average power consumption	< 0.65W	≤ 2 W	≤ 2 W
Wi-fi Standard	IEEE 802.11 b/g/n	802.11b/g/n(2.4G)	802.11b/g/n(2.4G)
Bluetooth	Bluetooth 4.2		
INTERFACE			
Physical	4-Pin circular connector	External 4-Pin Port	USB
Data transfer rate	9600bps		
Communication interface	RS 485, Bluetooth	RS485 (internal communication between inverters - upto 10 inverters)	RS485 (internal communication between inverters - upto 10 inverters)
ENVIRONMENTAL			
Operating temperature range	-10 C to + 55C	-30 ~ +65°C	- 30 ~ +65°C
Storage temperature range	-40C to +85C	- 40 ~ +70°C	- 40 ~ +70°C
Relative humidity	0% to 95%	5% - 95%,	5% - 95%,
CIRCULAR CONNECTOR			
Type	4-Pin circular connector	4-Pin circular connector	USB
PROTECTIONS			
Reverse polarity	Yes	Yes	Yes
ESD protection	Yes	Yes	Yes
IP Rating	IP 65	IP 65	IP 65
PHYSICAL			
Net weight (gms)	33.5	85	65
Gross weight (gms)	90.5		
Dimensions with Antenna (L x W x H)mm	142 x 26 x 95 (with recommended right angle antenna direction)	133 x 44 x 44	113 x 50 x 34
CONNECTIVITY			
Compatible with	PCU Pro, GTI	GTI models with 4 pin	GTI models with USB

LED INDICATION	LYNC X
Colour	Indication
LED1 (green)	Power indication
LED 2 (orange)	Wi-fi mode LED
LED 3 (Blue)	Signal strength
LED 4 (White)	Modbus communication

LED INDICATION	S3-Wi-Fi-ST S4-Wi-Fi-ST		
Colour	Indication		
Internet Indicators (NET) - Green	Shows the connection status between the data logger and the server.	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators (COM) - Yellow	Shows the connection status between the data logger and the inverter.	Flashing	Trying to connect with inverter
		ON	Successfully connected
		OFF	Abnormal connection
Power Indicator (PWR)- Red	Shows the power supply status of the data logger.	ON	Data logger is powered up normally
		OFF	Data logger is powered up abnormally



HAMESHA READY TO PERFORM

ONGLAST POWER PRODUCTS LIMITED
Plot No. 150, Sector-44, Gurugram, Haryana-122003

Contact No: 7428166166	Website: www.amaze-india.com	Mail ID: energysolution@amaze-india.com
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