

2026



AURAWATT

PRODUCT CATALOGUE

YOUR POWER PARTNER



HYBRID
INVERTERS AND
BATTERIES



Further Information

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AURAWATT

Your Power Partner

AURAWATT Hybrid Solar Smart Inverters bring together smart technology and reliable service. They seamlessly combine solar generation, battery storage, and grid power to give you continuous energy, lower bills, and freedom from outages.

Smart Technology for Smart Savings



High-Efficiency: Our inverters use MPPT technology to maximize solar energy and store it for when you need it.



Intelligent Control: Features like intelligent scheduling and automatic power source switching keep your costs down and you in control.



Built to Last: Engineered with robust construction and advanced protection, these inverters are durable and scalable for future needs.

From the Desk of the Co-Founder & CEO



*At **AURAWATT**, we believe energy independence is built on trust, reliability and long-term partnership.*

With our smart hybrid inverters, energy storage solutions and customised high-voltage battery systems, we deliver dependable power solutions designed for Indian conditions.

Backed by Pan-India service support, trained professionals and responsive onsite assistance, we stand with our customers throughout the life of their system.

*Together, let's build a smarter, more reliable and sustainable energy future—with **AURAWATT** as your trusted Power Partner.*

Vivek Dutt
Co-Founder & CEO



UNMATCHED SERVICE & SUPPORT

Comprehensive support. Faster response. Greater peace of mind.

Pan-India Service Network

Wider coverage for faster response and efficient on-site support.

24/7 Customer Support

Round-the-clock assistance from trained technical professionals.

QR Code— Based Complaint Resolution

Easy complaint registration, faster resolution and continuous HQ monitoring.

100+ Trained Service Engineers

Skilled professionals for reliable technical and field support.

Online & On-Site Support

Expert remote assistance backed by prompt on-site service.

SERVICE SUPPORT, JUST A SCAN AWAY

*Raise a service request quickly
with AURAWATT's QR-based
support*



SCAN

Simply scan the QR code available
on your AURAWATT inverter.

REGISTER

Fill in the required product and contact
details to register your service request.

RAISE

Select the concern or enter the issue
details and submit your complaint.

TRACK & RESOLVE

Our service team takes up the request
and assists you through resolution.

AURAWATT SP SERIES

AW-SP-L2-2000

IP54

LFP/
VRLA

1
MPPT



Rated Voltage – 12V

Pure Sine Wave

Smart Monitoring via Mobile App

MPPT Voltage Range – 30–400V

IP54 Rating Design

Multi-Layer Protection System

TECHNICAL DATASHEET

MODEL	AW-SP-L2-2000
AC INPUT	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90–280 (APP/GEN Mode); 170–264 (UPS Mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC OUTPUT	
Rated Capacity (kW)	2.0
Surge Power (kVA)	4.0
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60 Hz $\pm 0.1\%$
Switch Time (ms)	10 (APP/UPS Mode) / 20 (GEN Mode)
Wave Form	Pure Sine Wave
Overload Capacity	Off grid Mode: bat+PV = long term@102%~125% Load; 10s@125%~250%Load
	Off grid Mode: bat = 150A < 1bat $\leq$ 170A 30s ; 170A < 1bat $\leq$ 200A 10s ; 200A < 1bat 0.5s
Max. Efficiency (Battery Mode)	91% @ 12VDC
Parallel Quantity	NA
CHARGER (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current (A) / Power (W)	18 / 3000
MPPT Range @ Operating Voltage (VDC)	30–400
Max PV Open Circuit Voltage (VDC)	450
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
BATTERY	
Rated Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Max. Charging Current (A)	100
Max. Discharging Current (A)	150
Battery Type	Lithium and Lead-acid
INTERFACE	
HMI	LCD/RGB
Interface	CAN / RS232 / CT (Optional)
Monitoring	WiFi / GPRS
GENERAL DATA	
Ingress Protection	IP54
Warranty	5 years
Operating Temperature	-10°C to 60°C
Relative Humidity	5%–95% (Non-condensing)
Storage Temperature	-15°C to 60°C
Net Weight (kg)	4.5
Dimensions (W × H × D)	331 × 270 × 100 mm

AURAWATT SP SERIES

AW-SP-L1-3600

IP54

LFP/
VRLA

1
MPPT



Rated Voltage – 24V

Intelligent Monitoring System

Pure Sine Wave

MPPT Voltage Range – 40–450V

IP54 Rating Design

Multi-Layer Protection System

TECHNICAL DATASHEET

MODEL	AW-SP-L1-3600
AC INPUT	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90-280 $\pm$ 3 (Normal Mode); 170-280 $\pm$ 3 (UPS Mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC OUTPUT	
Rated Capacity (kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60 Hz $\pm$ 0.1%
Switch Time (ms)	10 (APP/UPS Mode) / 20 (GEN Mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s @ 102%-110% Load; 10s @ 110%-130% Load; 3s @ 130%-150% Load; 0.25s @ >150% Load
Max. Efficiency (Battery Mode)	92% @ 24VDC
Parallel Operation Support	NA
CHARGER (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current (A)/ Power (W)	18 / 5000
MPPT Range @ Operating Voltage (VDC)	40-450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
BATTERY	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
INTERFACE	
HMI	LCD/RGB
Interface	CAN / RS232
Monitoring	GPRS / WiFi (Optional)
GENERAL DATA	
Ingress Protection	IP54
Warranty	5 years
Operating Temperature	-10°C to 60°C
Relative Humidity	5%-95% (Non-condensing)
Storage Temperature	-15°C to 60°C
Net Weight (kg)	6.2
Dimensions (W x H x D)	420 x 284 x 94 mm
Max. Operating Altitude	4000 m (Derating above 1000 m)

AURAWATT SP SERIES

AW-SP-L1-6500

IP54

LFP/
VRLA

1
MPPT



Rated Voltage – 48V

Intelligent Monitoring System

Intelligent Load Management

MNRE Compliant GPRS/Wi-Fi -
Inbuilt/Dongle

Multi-Layer Protection System

IP54 Rating Design

TECHNICAL DATASHEET

MODEL	AW-SP-L1-6500
AC INPUT	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90-280 $\pm$ 3 (Normal Mode); 170-280 $\pm$ 3 (UPS Mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC OUTPUT	
Rated Capacity (kW)	6.5
Surge Power (kVA)	13
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60 Hz $\pm$ 0.1%
Switch Time (ms)	10 (Normal Mode) / 10 (UPS Mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	10 min @ 102%-120% Load; 1 min @ 120%-150% Load; 10 sec @ 150%-200% Load; 5 sec @ >200% Load
Max. Efficiency (Battery Mode)	93% @ 48 VDC
Parallel Operation Support	NA
CHARGER (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Power	28 A / 900 W
MPPT Range @ Operating Voltage (VDC)	60-450
Max PV Open Circuit Voltage (VDC)	520
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max Charge Current (PV + AC) (A)	120
BATTERY	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
INTERFACE	
HMI	LCD/RGB
Interface	CAN / RS232 / CT (Optional)
Monitoring	GPRS / WiFi - Built-in / Dongle
GENERAL DATA	
Ingress Protection	IP54
Warranty	5 years
Operating Temperature	-10°C to 50°C
Relative Humidity	5%-95% (Non-condensing)
Storage Temperature	-15°C to 60°C
Net Weight (kg)	10.7
Dimensions (W x H x D)	514 x 338 x 136.5 mm
Max. Operating Altitude	4000 m (Derating above 1000 m)

AURAWATT SP SERIES

AW-SP-3000 to AW-SP-6000

IP66

LFP/
VRLA

1
MPPT



Rated Voltage – 48V

Intelligent Monitoring System

Intelligent Load Management

MNRE Compliant GPRS/Wi-Fi -
Inbuilt/Dongle

Multi-Layer Protection System

IP66 Rating Design

TECHNICAL DATASHEET

MODEL	AW-SP-3000	AW-SP-4000	AW-SP-5000	AW-SP-6000
BATTERY DATA				
Battery Type	Lithium-ion & Lead-acid			
Rated Battery Voltage (Vdc)	48			
Battery Voltage Range (Vdc)	40-60			
Max. Charge/Discharge Current (A)	125/135			
Forced Wake-up by PV	Yes			
PV INPUT				
Max. Input Power (W)	6000	8000	10000	12000
Max. Input Voltage (Vdc)	500			
Rated Input Voltage (Vdc)	370			
Start-Up Voltage (Vdc)	-			
MPPT Voltage Range (Vdc)	60-450			
No. of MPPT / Strings Per MPPT	1/2			
Max. Input Current Per MPPT (A)	28			
Max. Short Circuit Current Per MPPT (A)	35			
GRID INPUT & OUTPUT				
Rated Grid Voltage (Vac)	220/230/240 ±5%			
Rated Grid Frequency (Hz)	50/60			
Grid Voltage Range (V)	80 - 322			
Rated Grid-Tied Power (W)	-			
Rated Grid-Tied Current (A)	-			
Max Grid-Tied Apparent Power (VA)	-			
Max Grid-Tied Current (A)	-			
Max Input Apparent Power (VA)	-			
Max Input Current (A)	40			
Total Harmonic Distortion (THDI)	<3%			
Displacement Power Factor	-			
BACKUP DATA				
Rated Output Power (W)	3000	4000	5000	6000
Rated Output Current (A)	27			
Rated Output Frequency (Hz)	50/60 ±0.1%			
Overload Capability	1min@101-110%, 10s@110%-150%, 5s@150%-200%, 100ms@ > 200%			
Switch Time (ms)	<10			
Total Harmonic Distortion (THDV)	<3%			
EFFICIENCY				
Max. Efficiency	97.00%			
Euro Efficiency	-			
MPPT Efficiency	99.90%			
PROTECTION				
Integrated	PV Reverse-polarity Protection, PV Insulation Detection, Ground Fault Monitoring,Over Current Protection, Over Voltage Protection			
Surge Protection	DC Type II/AC Type II			
Over Voltage Category	OVC II (DC), OVC III (AC)			
AFCI	-			
GENERAL DATA				
Operating Temperature (°C)	-40~+60 (Above 45°C Derating)			
Dimensions [W*H*D] (mm)	395*485*156			
Weight (kg)	14.5			
Topology	Non-Isolated			
Cooling	Smart Cooling			
Altitude (m)	≤3000			
Protection Level	IP66			
Communication	RS485/CAN/Dry contact/ External battery NTC/ Parallel communication/WIFI(optional)/GPRS			
Warranty	8 Years (Standard) / 10 Years (Optional)			
Max. No. of Parallel Units	-			
STANDARDS				
Grid Standards	IS 17980: 2022/IEC 62891:2020			
Safety Standards	IS 16169: 2019/ IEC 62116: 2014			
EMC Standards	IS 16221 (PART 2): 2015/ IEC 62109-2			

AURAWATT SP SERIES

AW-SP-8000 to AW-SP-11000

IP66

LFP/
VRLA

2
MPPT



Intelligent Load Management

99.9 % MPPTs Efficiency

Built-in Dual MPPT Tracking
Circuit

MNRE Compliant GPRS/Wi-Fi -
Inbuilt/Dongle

IP21 Rating Design

Warranty - 5 Years

TECHNICAL DATASHEET

MODEL	AW-SP-8000	AW-SP-10000	AW-SP-11000
BATTERY DATA			
Battery Type	Lithium-ion & Lead-acid		
Rated Battery Voltage (Vdc)	48		
Battery Voltage Range (Vdc)	40~60		
Max. Charge/Discharge Current (A)	150/220		
Forced Wake-up by PV	YES		
PV INPUT			
Max. Input Power (W)	2x6000	2x7000	2x8250
Max. Input Voltage (Vdc)	500		
Rated Input Voltage (Vdc)	370		
MPPT Voltage Range (Vdc)	60~450		
No. of MPPT / Strings Per MPPT	2/2		
Max. Input Current Per MPPT (A)	27		
Max. Short Circuit Current Per MPPT (A)	35A		
GRID INPUT & OUTPUT			
Rated Grid Voltage (Vac)	220/230/240±5%		
Voltage Input Range (Vac)	90~322		
Rated Grid Frequency (Hz)	50/60		
Max Input Current (A)	60		
Total Harmonic Distortion (THDI)	<3% (of nominal power)		
BACKUP DATA			
Rated Output Power (W)	8000	10000	11000
Rated Output Current (A)	35	45	48
Rated Output Frequency (Hz)	50/60±0.1%		
Overload Capability	10s@105%~120%;5s@121%~200%;100ms@>200%		
Switch Time (ms)	10ms for Computer Equipment,20ms for Household Equipment		
Total Harmonic Distortion (THDv)	<3%		
EFFICIENCY			
Max. Efficiency	97.0%		
MPPT Tracking Efficiency	99.90%		
PROTECTION			
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Power Network Monitoring, Earth Fault Detection, Surge protection level		
Surge Protection	DC Type II/AC Type II		
Over Voltage Category	DC Type II/AC Type III		
GENERAL DATA			
Operating Temperature (°C)	-10~+55		
Dimensions [WHD] (mm)	420*450*105		
Weight (kg)	15.5		
Topology	Non-Isolated		
Cooling	Internal Fan		
Altitude (m)	≤3000		
Protection Level	IP21		
Communication	RS485 / CAN / Dry contact/ External battery NTC/Parallel communication /WIFI(optional)/GPRS		
Warranty	5 Years (Standard) / 8 Years (Optional)		
STANDARDS			
Efficiency Standard	IS 17980: 2022/IEC 62891:2020		
Safety Standards	IS 16169: 2019/ IEC 62116: 2014		
EMC Standards	IS 16221 (PART 2): 2015/ IEC 62109-2		

AURAWATT TP-X SERIES

AW-TP 8000-L to AW-TP 20000-L

IP66

LFP/
VRLA

2
MPPT



Fanless Silent Design

99.9 % MPPTs Efficiency

150% Overload Tolerance

**MNRE Compliant GPRS/Wi-Fi -
Inbuilt/Dongle**

IP66 Rating Design

Warranty - 8 Years

TECHNICAL DATASHEET

MODEL	AW-TP 8000-L	AW-TP 10000-L	AW-TP 12000-L	15KW	AW-TP 20000-H
BATTERY DATA					
Battery Type	Lithium-ion				
Battery Voltage Range (Vdc)	135-800			135-750	135-750
Max. Charge/Discharge Current (A)	33/33			40/40	40/40
PV INPUT					
Max. Input Power (W)	12000	15000	18000	24000	32000
Max. Input Voltage (Vdc)	1000			1000	1000
Rated Input Voltage (Vdc)	600			620	620
Start-Up Voltage (Vdc)	120			200	200
MPPT Voltage Range (Vdc)	180~900			200-850	200-850
No. of MPPT / Strings Per MPPT	2/1+1			2/2	2/2
Max. Input Current Per MPPT (A)	16/16			30/30	30/30
Max. Short Circuit Current Per MPPT (A)	20/20			40/40	40/40
GRID INPUT & OUTPUT					
Rated Grid Voltage (Vac)	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Grid Frequency (Hz)	50			50	50
Rated Grid-Tied Power (W)	8000	10000	12000	15000	20000
Rated Grid-Tied Current (A)	11.6	14.5	17.4	21.7	29
Max Grid-Tied Apparent Power (kVA)	8800	11000	13200	16.5	22
Max Grid-Tied Current (A)	13.4	16.7	20	25	33.5
Max Input Apparent Power (VA)	8800	11000	13200	-	-
Max Input Current (A)	13.4	16.7	20	-	-
Total Harmonic Distortion (THDI)	<3%				
Displacement Power Factor	0.8 leading to 0.8 lagging			0.8 leading to 0.8 lagging	
BACKUP DATA					
Rated Output Power (W)	8000	10000	12000	15000	20000
Rated Output Current (A)	11.6	14.5	17.4	21.7	29
Rated Output Frequency (Hz)	50				
Overload Capability	110%, continuous, 150%, 10s				
Switch Time (ms)	<=10				
Total Harmonic Distortion (THDv)	<3%				
EFFICIENCY					
Max. Efficiency	97.80%	98.00%	98.40%	99.9	99.9
Euro Efficiency	97.10%	97.30%	97.30%	97.5	97.5
MPPT Efficiency	99.90%			98.4	98
PROTECTION					
Integrated	PV Reverse-polarity Protection, PV Insulation Detection, Ground Fault Monitoring, Over Current Protection, Over Voltage Protection, Leakage protection				
Surge Protection	DC Type II/AC Type II				
Over Voltage Category	DC Type II/AC Type III				
AFCI	Optional				
GENERAL DATA					
Operating Temperature (°C)	~25 to +60 (Above 45°C Derating)			-30~60	-30~60
Dimensions [WHD] (mm)	565 x 465 x 197			534×418×210	534×418×210
Weight (kg)	31			31	31
Topology	Transformerless				
Cooling	Natural Cooling			Smart Fan	
Altitude (m)	<=3000				
Protection Level	IP66				
Communication	RS485, WiFi/GPRS, CAN2.0				
Warranty	8 Years (Standard) / 10 Years (Optional)			5 Years (Standard)	
Max. No. of Parallel Units	6			1	1
STANDARDS					
Grid Standards	VDE-AR-N 4105, VDE0126-1-1, EN50549, CEI 0-21/16, EIFS, PSG, TOR				
Safety Standards	IEC/EN 62109-1, IEC/EN 62109-2				
EMC Standards	EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN 61000-3-12:2011, EN IEC 61000-3-11:2019				

AURAWATT TP-H SERIES

AW-TP 25000-H to AW-TP 50000-H

IP66

LFP/
VRLA

4
MPPT



Fanless Silent Design

99.9 % MPPTs Efficiency

150% Overload Tolerance

**MNRE Compliant GPRS/Wi-Fi -
Inbuilt/Dongle**

IP66 Rating Design

Warranty - 5 Years



TECHNICAL DATASHEET

MODEL	AW-TP-25000-H	AW-TP-30000-H	36KW	AW-TP-40000-H	AW-TP-50000-H
PV SIDE					
Max. PV Array Power [kWp]	40	48	57.6	64	80
Max. PV Input Voltage * [V]	1000				
Rated PV Input Voltage [V]	620				
Start-up Voltage [V]	135				
MPPT Operating Voltage Range * [V]	200-850	200-850	200-850	200-850	200-850
No. of MPP Trackers	4	4	4	4	4
No. of Strings per MPPT	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT ** [A]	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30	30/30/30/30
Max. Short-circuit Current per MPPT [A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
BATTERY SIDE					
Battery Type	Lithium-ion				
Battery Voltage Range *** [V]	135-750				
No. of Battery Input	1				
Max. Charge/Discharge Current [A]	100/100				
Max. Charge/Discharge Power [kW]	25/25	30/30	36/36	40/40	50/50
GRID SIDE (ON-GRID)					
Rated Output Power [kW]	25	30	36	40	50
Max. Output Apparent Power [kVA]	27.5	33(1)	39.6	44	55
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency [Hz]	50/60				
Rated Output Current [A]	37.9/38.0/34.7	45.5/43.5/41.7	54.5/52.0/50	60.6/60.0/55.6	75.8/75.0/69.4
Max. Output Current [A]	42	50(2)	60	66	83
Power Factor	0.8 leading ...0.8 lagging				
THDi (@Rated Power)	<3%				
Max. Input Apparent Power **** [kVA]	30	36	43.5	48	60
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated AC Frequency [Hz]	50/60				
Max. AC Input Current [A]	43.5	52.2	63	69.6	87
BACK-UP SIDE (OFF-GRID)					
Rated Output Power [kW]	25	30	36	40	50
Peak Output Apparent Power [kVA]	33.75 @10s	40.5 @10s	48.6 @10s	54 @10s	67.5 @10s
Rated Output Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Output Frequency [Hz]	50/60				
Rated Output Current [A]	37.9/38.0/34.7	45.5/43.5/41.7	54.5/52.0/50	60.6/60.0/55.6	75.8/75.0/69.4
On/Off-grid Switching Time	< 10ms				
THDv (@Linear Load)	<3%				
GENERATOR SIDE					
Max. Input Apparent Power [kVA]	30	36	43.5	48	60
Rated Input Voltage [V]	3L/N/PE; 220/380V; 230/400V; 240/415V				
Rated Input Frequency [Hz]	50/60				
Max. Input Current [A]	45.5	54.5	65.9	72.7	90.9
EFFICIENCY					
MPPT Efficiency	99.90%				
Max. Efficiency	98.80%				
European Efficiency	98.30%				
PROTECTION					
Integrated Protection	DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC/AC: Type II/Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
GENERAL DATA					
Dimensions [W×H×D mm]	800×620×300				
Weight [KG]	72				
Ingress Protection	IP65				
Standby Self-consumption [W]	< 40				

AURAWATT ALL-IN-ONE SERIES

AW-SP-L1-3600-C

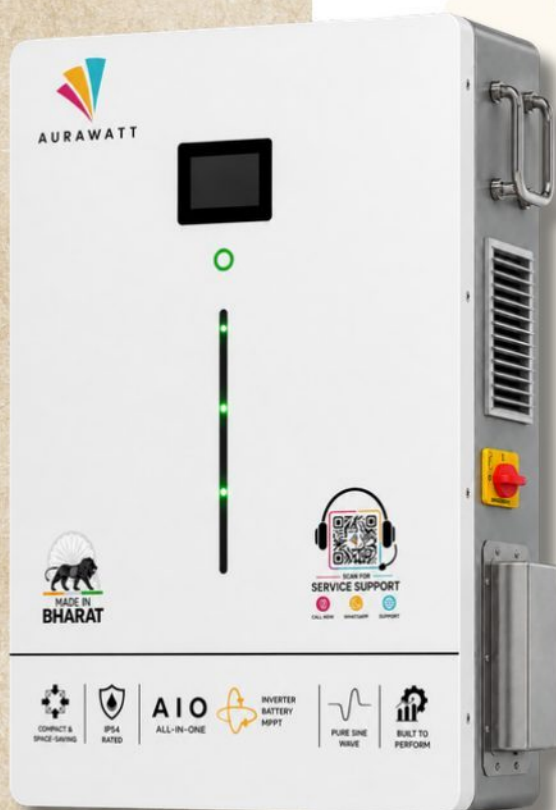
IP54

LFP

1
MPPT



BUILT-IN
CHANGEOVER
SWITCH



Rated Voltage - 25.6V

Pure Sine Wave

Dual Monitoring System

Compact Design

IP54 Rating Design

Warranty - 5 Years

TECHNICAL DATASHEET

MODEL	AW-SP-L1-3600-C
AC INPUT	
Rated Voltage	208 / 220 / 230 / 240 Va.c., L+N+PE
Rated Frequency (Hz)	50 / 60
Current (Max Continuous) (Aa.c.)	20
INVERTER OUTPUT	
Rated Power (kW)	3.6
Rated Voltage	208 / 220 / 230 / 240 Va.c., L+N+PE
Power Factor	1
Wave Form	Pure Sine Wave
Switch Time (ms)	<10 (Typical)
Inverter Efficiency (Peak)	92.7% @ 24V d.c.
Current (Max Continuous) (Aa.c.)	15.6
Max Output Overcurrent Protection	102%~110% 1min / 110%~130% 10s / 130%~150% 3s / 150% 0.2s
BATTERY	
Battery Type	Lithium
Rated Battery Voltage (Vd.c.)	25.6
Battery Voltage Range (Vd.c.)	22.4 ~ 28.8
Max. Charge Current (Ad.c.)	30 / 50 max
Discharge Current (A)	40 / 80 max
Cell Chemistry	3.2V 100Ah Prismatic Cell
Battery Configuration	8S1P
Cell Capacity (Ah)	100
Rated Energy (kWh)	2.56
Protection	Over & Under Voltage / Over Current / Over Temperature (Individual cell NTC), Voltage / Temp delta.
Communication	RS 485/ CAN
PV INPUT	
No. of MPPT Tracker / Strings	1 / 1
Max. PV Array Power (kW)	5
Max. DC Voltage (Vd.c.)	500
MPPT Voltage Range (Vd.c.)	40 ~ 450
Start-up Voltage (Vd.c.)	60
MPPT Max Charge Current (Ad.c.)	100
Max. Input Current (Ad.c.)	18
Isc PV (Absolute Maximum) (Ad.c.)	22
PROTECTION	
Parallel Function	No
Protection Degree	IP54
Certifications	IS 17980: 2022/IEC 62891:2020, IS 16169: 2019/ IEC 62116: 2014, IS 16221 (PART 2): 2015/ IEC 62109-2
Other Protection	Overload, Over temperature, Short circuit
GENERAL	
Storage Temperature	-15°C ~ +60°C
Operating Temperature	-10°C ~ +50°C
Humidity	20% ~ 95% (Non-condensing)
Operating Altitude (m)	4000 (>1000 Derating)
Noise (dB)	<50
Dimensions (WHD) (mm)	285*435*100
Machine Weight / N.W. (kg)	6.5
DISPLAY AND COMMUNICATION	
Display	LCD (Running Mode, Loads, Input/Output etc.)
Interface	RS232 / GPRS/ CAN / Dry Contact / WiFi (Optional) / GPRS

AURAWATT LFP SERIES

AW-LFP-12.8

Energy
Efficient

Ready
to Use

Smart
BMS



Solar Energy Storage

Energy Backup

Maintenance free

Wide Operating
Temperature

Easy Installation

Longer Cycle Life

TECHNICAL DATASHEET

MODEL	AW-LFP-12.8
TECHNICAL PARAMETERS	
Nominal Voltage	12.8
Rated Capacity (Ah)	100
Rated Energy (kWh)	1.2
Operating Voltage Range	11.2 – 14.4
Charging Method	CC-CV
Charging Current	20A (Std.)
	40A (Max.)
Discharging Current	40A (Std.)
	80A (Max.)
IP Rating	≥IP21
Weight	13 ±1 kg
Dimension (W×D×H)	365 × 125 × 275
Operating Temperature – Charging	0 to 55°C
Operating Temperature – Discharging	-20 to 60°C
Storage Temperature	10 to 30°C (recommended)
	0 to 40°C
Humidity	≤85% RH (non-condensing)
Temperature Sensors	Provided
BMS Level Protections	OV, UV, OC, OT, UT, Isc
Communication	RS485 / CAN (Both optional on request)
Display	Available
Warranty	*5 years / ≥3000 cycles @25°C ambient) whichever is earlier

- The warranty is on any manufacturing defect .
- Weight of the product may vary as per product actuals.
- The manufacturer reserves the right to change the product as per the requirement.
- OV = Over Voltage, UV = Under Voltage, OC = Over Current, OT = Over Temperature, UT = Under Temperature, Isc = Short Circuit

AURAWATT LFP SERIES

AW-LFP-25.6

Energy
Efficient

Ready
to Use

Smart
BMS



Wide Voltage

High Energy Density

Intelligent BMS

Safety Embedded

Easy Installation

Each Cell Monitoring

TECHNICAL DATASHEET

PARAMETER	AW-LFP-25.6
ELECTRICAL	
Rated Energy (kWh)	2.56
Nominal Voltage (V)	25.6
Operating Range (V)	22.4 ~ 28.8
Battery Configuration	8S1P
Cell Capacity (Ah)	100
Discharge Current (A)	50 / 80 max
Charging Current (A)	30 / 50 max
Cell Chemistry	3.2V 100Ah Prismatic Cell
Dimension WDH (mm)	365 * 175 * 420
Weight (Kg)	26
Humidity	≤85% RH (non-condensing)
Operating Temp. (°C)	0 °C to 55 °C
Storage Temp. (°C)	15 °C to 40 °C
ADDITIONAL FEATURES	
Life Cycle	5 Years / ≥3000 cycles @ambient 25°C
Protection	Over & Under Voltage / Over Current / Over Temperature (Individual cell NTC), Voltage / Temp delta.
Communication	RS 485/ CAN
Application	Residential Inverters, Off Grid Inverters, Hybrid Inverters
IP Rating	IP 20
Display	Interactive display for data monitoring

- The warranty is on any manufacturing defect .
- Weight of the product may vary as per product actuals.
- The manufacturer reserves the right to change the product as per the requirement.

AURAWATT LFP SERIES

AW-LFP-51.2

Energy
Efficient

Ready
to Use

Smart
BMS



Advanced LFP Safety Architecture

Industrial-Grade Longevity

High-Efficiency Performance

Zero-Maintenance Operation

Easy Installation

Each Cell Monitoring

TECHNICAL DATASHEET

MODEL	AW-LFP-51.2
TECHNICAL PARAMETRES	
Battery Chemistry	LiFePO4
Capacity (Ah)	100Ah
Nominal Voltage (V)	51.2
Battery Configuration	16S 1P
Operating Voltage (V)	42V-58.4V
Energy (kWh)	5.12kWh
Charging C-Standard Rated	0.3C
Max Charging C-Rated	0.5C
Discharging C-Standard Rated	0.5C
Max Discharging C-Rated	1C
Peak Current	110A@3sec
Battery Management System	Smart BMS
Cell Balancing	Passive
Dimension (L*W*H, mm) Cabinet	(515*181.2*535)mm
Soft Pack Weight (kg)	~54kg
Operating Temperature	Charge: 15-45°C / Discharge: 0-50°C
Humidity	5%~95%
DOD%	90%
SOC% Required for long Transportation	30%~40% (Rated Capacity)
Communication Interface	Yes, CAN, RS485, BLE
Protections	OV, UV, UT, OT Short Circuit, OC
Cell cycles at 80% DoD @80% capacity retention at 25°C	3500
Parallel Scalability	Yes (upto 16)



AURAWATT CUSTOMIZED HIGH-VOLTAGE BATTERY SOLUTIONS

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