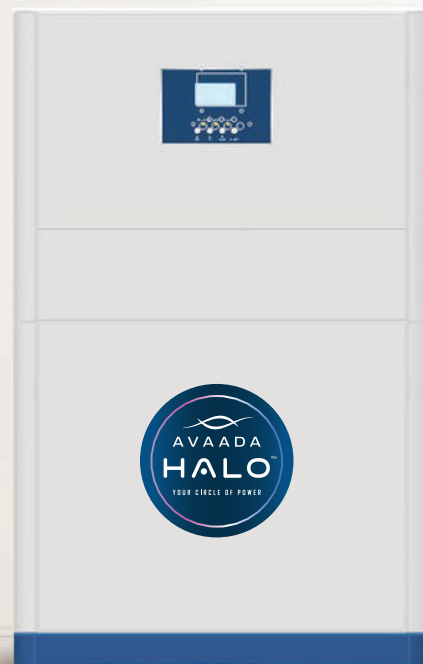




YOUR CIRCLE OF POWER

Avaada HALO is an advanced Battery Energy Storage System that stores energy from Solar or Grid, transforming how you power your premises. It captures, stores, and delivers clean solar energy, ensuring uninterrupted power, lower bills, and complete energy independence.

Say goodbye to unreliable grids and rising energy costs. Avaada HALO intelligently stores excess solar energy to power your premises day and night. Even without solar panels, it stands strong as a standalone backup system, keeping your premises bright and life uninterrupted.



Key Features

-  **All-in-One Energy System:** Seamlessly integrates Hybrid inverter, and battery in one compact unit.
-  **Expandable Power:** Stack up to 4 units for up to **4 Hrs full load power backup** of usable storage- perfect for homes, offices, or villas.
-  **High Output Performance:** Delivers **up to 10 kW continuous power** and up to **19 kW with solar support** during outages.
-  **Smart Design:** Sleek, space-saving metal enclosure. Mount it indoors or outdoors, along with the wall on floor.
-  **Future-Ready:** Modular setup designed to grow with your energy needs.
-  **Long-life LiFePO₄ Battery** with > 6,000 cycles.
-  **95% Efficiency** for maximum solar utilization.
-  **Certified for Safety & Performance** (BIS, RoHS, IEC 62109-2 / 62116).
-  **10-Year Warranty** backed by **Avaada- India's trusted clean-energy brand.**

Why Avaada HALO

- Reliable backup for homes and businesses
- Cleaner, quieter alternative to generators
- Smart energy management for sustainable living
- Stay in control with the **Avaada Mobile App**: monitor real-time energy generation, usage, and battery health. Get alerts, performance reports, and total visibility at your fingertips.
- **Seamless Solar Integration:** Works effortlessly with both existing and new solar PV systems

Applications



18005 713094 | sales@avaada.com | avaadaelectro.com

Avaada Halo Specifications:

Nominal AC Power	3000 W	5000 W	10000 W
Rated Grid Voltage	230 V (± 10%)		
Nominal AC Frequency	50Hz (± 10%)		
Nominal AC Current	12.75 A	21.25 A	43.25A
Output Waveform	Pure Sinewave		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		

Battery Specifications

Total Energy (2 Hrs full load backup)	5 kWh	10 kWh	20 kWh
Usable Capacity	5 kWh	10 kWh	20 kWh
Rated Capacity	100 AH	200 AH	400 AH
Charge/Discharge Rating	0.5C/0.25C		
Rated DC Voltage	24V (nominal ~25.6V)	48V (nominal ~48V)	
Cont. Backup Power (Off-grid w/o Solar)	3.0 kW	5.0 kW	10.0 kW
Cont. Backup Power (Off-grid w/ Solar)	5.7 kW	9.5 kW	19kW
Peak Output Power [10s]	4.5 kW	7.5 kW	15kW
BMS Voltage	Up to 30 V	Up to 60 V	Up to 60 V
Maximum Charge/Discharge Current	50A	100A	100A
Battery Input Voltage Range	16 V–35 V	37 V–55 V	37 V–55 V
Battery Chemistry	Lithium Ferro Phosphate (LiFePO4)		
System Roundtrip Efficiency	AC coupled 90%/DC coupled 94%		
Depth of Discharge[DOD]	90%		
Cycle Life[90% DOD]	> 6000 Cycles		
Short circuit current	>200A	>200A	>200A
Energy Capacity at the end of 10 years	70 %		

Other Specifications

Typical Noise Level	<50 dB
Overvoltage Category	IV [electric supply side], II [PV Side]
Operating Temperature	-10 ~ 50 °C
Inverter Communication Interface	RS485, CAN(optional)
Battery Communication Interface	RS485
Display Communication	LCD/LED
Installation Method	Floor along wall mounted
Warranty	10 years*



User Interface

Display and LED Indication	Graphical LCD and LED for fault indication
Battery Parameters	Voltage / Current / SOC/ Alarms etc
PV Parameters	PV Voltage/ MPPT current/ Power etc
AC Parameters	Grid voltage, frequency, power, current etc
Operations	Mode of operations / Active faults/ System Mimic etc
Faults and Warnings	Under and Over Temp'r/ current/ voltage / load etc.

Solar Input

Max. PV Input Power [MPPT]	4500 W	6500 W	15000 W
PV Input Voltage	260 V (246 V ~ 321V)	420 V (340 V ~ 442V)	420 V (340 V ~ 442V)
MPPT Voltage Range [DC]	246 V ~ 321 V	340V ~442 V	340V ~442 V
Max. Operating PV Input Current	18 A	18 A	18 A + 18 A
Max. Input Short-Circuit Current	27 A	27A	27 A + 27 A
Maximum PV Charging Current	100 A	120 A	150 A
Maximum Short Circuit Current[DC]	30 A	30 A	30 A
No. of MPPTs/ String per MPPT	1-1	1-1	2-2

Standards & Certifications

Inverter Certifications	IEC 62109-2, IEC 62116		
System Certifications	BIS, MNRE		
Hazardous Material Classifications	RoHS		
Grid Connections Standards	Indian Electricity Grid Code/CEA Regulations, IS/IEC 61727		
Relative Humidity	Up-to 95%		
Cooling	Forced air (inverter)/Natural (battery)		
Degree of Protection	IP21		
Altitude	Max 4000m		
Maximum Inverter efficiency	95%	95%	95%
Dimensions (LXBXH) mm	936 x 589 x 156	1376 x 589 x 156	1376 x 589 x 310
Weight in Kg	~ 65Kg	~ 120Kg	~ 200Kg



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