



Omni Hybrid

Omni AAH 50-110

The Hybrid Omni is an All-in-one, air-cooled Energy Storage System (ESS) cabinet with modular design to provide flexibility, ideal for small C&I energy storage applications. The Omni Hybrid's high energy density cells and many advanced features will significantly improve your ESS projects' economic return, safety considerations, and construction convenience.

Battery Parameters

Cell Type	LiFePO4 (LFP)
Cell Model	3.2V/206Ah
Cell Configuration	1P168S
Rated Energy	110kWh
Rated Voltage	537.6Vdc
Working Voltage	470.4 to 604.8Vdc
Rated Current	103A
Max Current	200A

PV Parameters

Max Input Power	75kW
Startup Voltage	135V
MPPT Voltage Range	200 to 950Vdc
MPPT Channels	4
Max Input Current	30A*4

AC On Grid Parameters

Rated Power	50kW
Rated Voltage	3L/N/PE; 230/400Vac
Max AC Current	83A
Frequency	50 / 60 Hz
Power Factor	0.8 (lag) - 0.8 (lead)
THD	<3% @ Rated Power

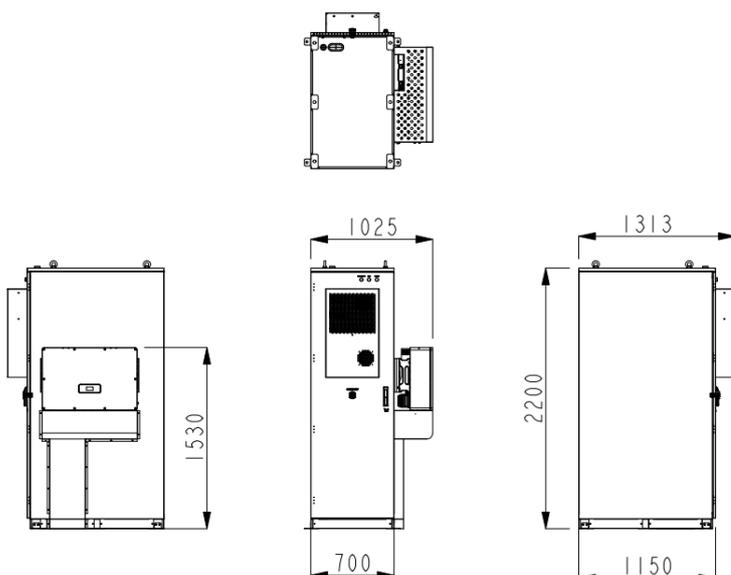
AC Off Grid Parameters

Rated Power	50kW
Rated Voltage	3L/N/PE; 230/400Vac
Max Current	83A
Frequency	50 / 60 Hz
On-Grid/Off-Grid Switching Time	< 20ms
THD	< 3%

System Parameters

Thermal Management	Air Conditioner
Fire Protection System*	Heat Detector/Smoke Detector/Aerosol
Communication Port	LAN/WiFi/4G
DG Interface	Dry Contact
Cabinet Dimensions (W*H*D)	700*1313*2200 (mm)
Hybrid Storage Inverter Dimensions (W*H*D)	760*290*490(mm)
Weight	1700kg
IP Grade	IP54
Working Temperature	-20 to 50°C
Humidity	0 to 95% (No Condensation)
Latitude	≤ 3000m
*Optional Fire Supression Systems	Combustible Gas Detector, Water Sprinkler System

Installation Dimensions (mm)



Electrical Topology Diagram

