

HT Outdoor Cabinet ESS for PV Storage & Charging

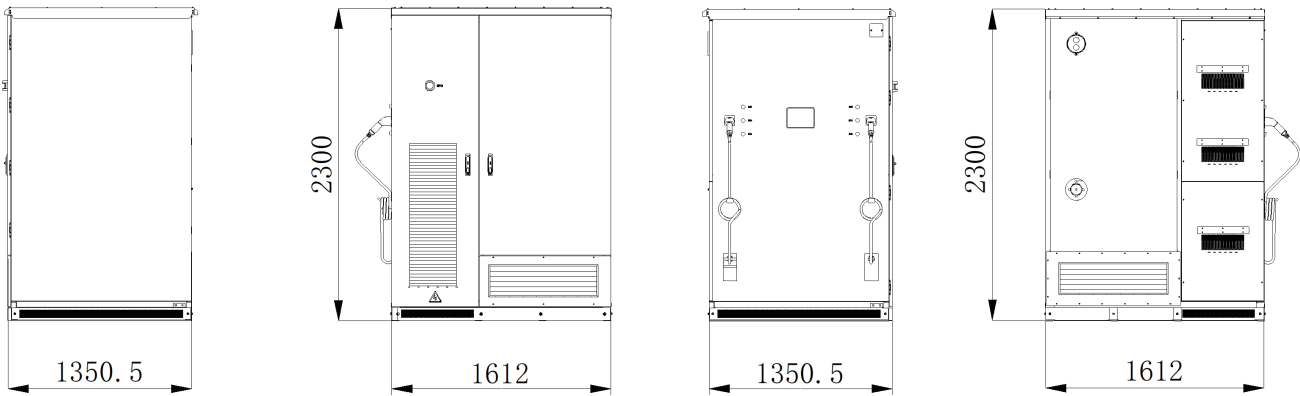


Outdoor Cabinet ESS for PV Storage & Charging: This system is productized, integrating energy storage batteries, PCS and power distribution, photovoltaic modules, charging modules, etc. Its working principle is based on the "PV + energy storage + charging" solution. It can be applied in various scenarios such as EV charging stations, industrial parks, commercial buildings, residential communities, remote areas, and microgrids. It realizes efficient utilization of renewable energy and reduces energy costs.

Product Features:

- Standardized structure design: menu-type function configuration, photovoltaic charging module, a parallel off-grid switching module, power frequency transformer, and other components can be selected for microgrid and other scenarios, and integrated photovoltaic storage integration system cabinet;
- Flexible Configuration: With built-in photovoltaic, energy storage, charging, and other power modules, it offers flexible combinations, easy expansion, and satisfies various application scenarios;
- Intelligent Management: Realise remote monitoring and management, real-time fault warning, support cloud scheduling and operation report analysis, real-time station monitoring and historical data query, which can be used for revenue settlement;
- Space-saving: using door-mounted embedded integrated air conditioners can save space in the cabinet by not occupying any space, improving the available space, enhancing the top structural integrity, and achieving a good waterproof effect.





PERFORMANCE SPECIFICATIONS

Model	HT-100 (DC100) (232kWh) (EV120)
Grid port	
Rated /Max.AC power	100kW/110kW
Rated current	144A
Max.current	158A
Rated voltage	400Vac, 3W+PE
Rated frequency	50/60Hz (±5Hz)
PV port	
Max.PV input voltage	Minimum battery voltage -30V
PV input power	100kW
MPPT channels	1/2/4
Battery port	
Battery rated capacity	232kWh
Battery rated voltage	832V
Battery voltage range	Lithium iron phosphate battery (LFP)
Battery cell capacity	280Ah
Series of Battery	1P*52S*5S
Maximum charge and discharge current	140A
Charging port	
Rated input power	60kW*2
Rated input current	120A*2 (500Vdc)
Measurement accuracy	<±0.1%
Number of Charging Guns	2
Gunline length	5m
Activation method	Scanning, swiping, APP
Charging method	Auto-fill, by amount, by power, by time
Display Mode	LED
General Parameters	
Cooling mode	Intelligent air-cooled
Degree of protection	IP54
Shutdown self-discharge	<0.1%Rated power (Without transformer)
Relative humidity	0 ~ 95% (no condensation)
Noise	<78dB
Ambient temperature	-25°C to +60°C(with derating at temperatures above 45°C)
Altitude	3000m (> 2000m reduction)
Display	LCD
BMS Communication	Ethernet / 485
Size (W * D * H)	1612*1350*2300mm
Weight (approx.)	2700kg
Emergency stop protection	Equipped with emergency stop button, with emergency stop protection function
Protection features	Input over-under-voltage protection, input over-current protection, anti-surge protection, output short-circuit protection, over-temperature protection, anti-backflooding protection, battery active protection, emergency shutdown and other protection functions.

