

High-Capacity 500kW / 1MWh ESS



Technical Specification

Model	GP-ESS1000-716.8V1400Ah
Battery parameters	
Cell type	LFP 3.2V280Ah
Power of single battery cluster (kwh)	200.704
Number of battery clusters	5
Battery system power (kwh)	1003.52
Battery life	25°C 0.5C/0.5C 100%DOD EOL80% ≥6000times
Maximum power	0.93
AC parameters	
Rated output power (KW)	500
Maximum output power (KW)	550
Rated grid voltage (v)	3W+N+PE, 380/400V
Grid voltage range	-15%~+10%
Rated grid frequency (Hz)	50/60
Output current harmonics	<3%(Rated power)
Power factor	-0.9~+0.9
Overload capacity	105%:continuous running; 105%-120%:10mins; 120%: Shut down
Photovoltaic Input	
Max.PV input voltage(V)	1000V
Max.PV power(kW)	600/660/720KW
MPPT voltage range(V)	250-850V
MPPT voltage range@full load (V)	450-850V
Basic parameters	
Dimensions (w * D * H)(mm)	6058*2438*2591
Weight (kg)	16500kg
Isolation mode	System built-in isolation transformer
Off-grid switching device	STS
Protection class	Outdoor type IP54
Operating temperature range	-20~55°C(>45°C derating)
Relative humidity (no condensation)	0~95%
Temperature control	Air conditioner
Maximum working altitude (m)	4000(>2000°C derating)
Display	Touch screen
Communication interface	RS485/CAN/LAN
Communication protocol	Modbus-RTU/Modbus-TCP/CAN2.0B

Flexible 500kW / 1.5MWh Energy System



Technical Specification

Model	GP-ESS1500-768V1960Ah
Battery parameters	
Cell type	LFP 3.2V280Ah
Power of single battery cluster (kwh)	215.04
Number of battery clusters	7
Battery system power (kwh)	1505.28
Battery life	25°C 0.5C/0.5C 100%DOD EOL80% ≥6000times
Maximum power	0.93
AC parameters	
Rated output power (KW)	500
Maximum output power (KW)	550
Rated grid voltage (v)	3W+N+PE, 380/400V
Grid voltage range	-15%~+10%
Rated grid frequency (Hz)	50/60
Output current harmonics	<3%(Rated power)
Power factor	-0.9~+0.9
Overload capacity	105%:continuous running; 105%-120%:10mins; 120%: Shut down
Photovoltaic Input	
Max.PV input voltage(V)	1000V
Max.PV power(kW)	600/660/720KW
MPPT voltage range(V)	250-850V
MPPT voltage range@full load (V)	450-850V
Basic parameters	
Dimensions (w * D * H)(mm)	6058*2438*2591
Weight (kg)	21000kg
Isolation mode	System built-in isolation transformer
Off-grid switching device	STS
Protection class	Outdoor type IP54
Operating temperature range	-20~55°C(>45°C derating)
Relative humidity (no condensation)	0~95%
Temperature control	Air conditioner
Maximum working altitude (m)	4000(>2000°C derating)
Display	Touch screen
Communication interface	RS485/CAN/LAN
Communication protocol	Modbus-RTU/Modbus-TCP/CAN2.0B

Massive 5MWh Energy Storage



Technical Specification

Model	GP-ESS5000-716.8V7000Ah
Battery parameters	
Cell type	LFP 3.2V280Ah
Power of single battery Cluster (kwh)	200.704
Number of battery Cluster	25
Battery system power (kwh)	5017.6
Battery life	25 °C 0.5C/0.5C 100%DOD EOL80% ≥6000times
Maximum power	0.93
AC parameters(On-Off Grid)	
Rated output power (KW)	500
Maximum output power (KW)	550
Rated grid voltage (v)	3W+N+PE, 380/400V
Grid voltage range	320-460V
Rated grid frequency (Hz)	50/60
Output current harmonics	<3%(Rated power)
Power factor	1 lagging~1leading
Overload capacity	110% Long-term
Photovoltaic Input	
Max.PV input voltage(V)	1000V
Max.PV power(kW)	600/660/720KW
MPPT voltage range(V)	250-850V
MPPT voltage range@full load (V)	450-850V
Basic parameters	
Dimensions	40ft Container
Isolation mode	System built-in isolation transformer
Off-grid switching device	STS
Protection class	Outdoor type IP54
Operating temperature range	-20~55°C(>45°C derating)
Firefighting	Perfluorohexanone + water fire fighting
Relative humidity (no condensation)	0~95%
Temperature control	Air conditioner
Maximum working altitude (m)	4000(>2000°C derating)
Display	Touch screen
Communication interface	RS485/CAN/LAN
Communication protocol	Modbus-RTU/Modbus-TCP/CAN2.0B