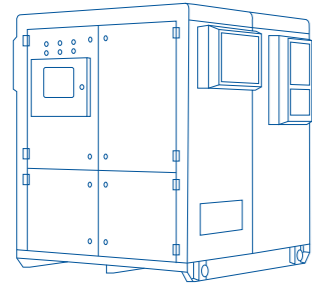


Optical storage DC bus system



GRES-75-50

Battery capacity: **75kWh**

PCS capacity: **50kW**

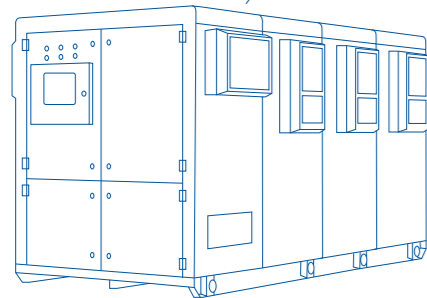
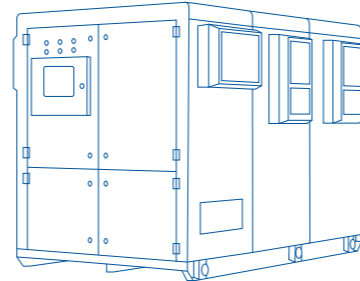
Size: **1680*1502*1700** (W*D*H)mm

GRES-150-100

Battery capacity: **150kWh**

PCS capacity: **100kW**

Size: **1680*2264*1700** (W*D*H)mm



GRES-225-150

Battery capacity: **225kWh**

PCS capacity: **150kW**

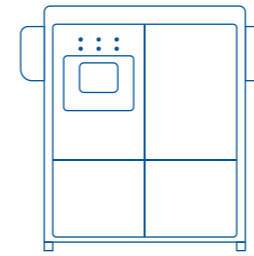
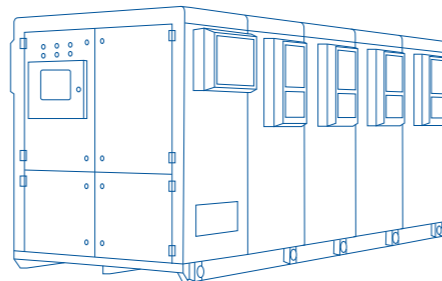
Size: **1680*3026*1700**(W*D*H)mm

GRES-300-200

Battery capacity: **300kWh**

PCS capacity: **200kW**

Size: **1680*3788*1700**(W*D*H) mm



GRES

Integrated Optical Storage DC Bus System

Model	GRES-75-50	GRES-150-100	GRES-225-150	GRES-300-200
PV parameter				
MPPT voltage range	DC200V ~ DC700V			
MPPT full power voltage range	DC370V ~ DC700V			
Number of MPPT channels	0-2 (optional)			
Maximum single channel current	135A			
AC parameter (on-grid)				
Rated output power	50kW	100kW	150kW	200kW
Maximum output power	55kW	110kW	165kW	220kW
Rated grid voltage	AC 380V/400V			
Grid	3W+N+PE			
Grid voltage range	-15% ~ +10%			
Rated grid frequency	50Hz/60Hz			
Grid frequency range	±2Hz			
Output current harmonics	≤ 3% (rated power)			
Power factor range	-0.9~+0.9			
AC parameter (off grid)				
Rated output power	50kW	100kW	150kW	200kW
Maximum output power	55kW	110kW	165kW	220kW
Rated output voltage	3W+N+PE, 380V/400V			
Output voltage harmonics	3% (linear full load)			
Rated frequency	50Hz/60Hz			
Overload capacity	105%]: continuous operation; (105%—120%]: 10 min; 120%): 1 min			
Battery parameter				
Cell type	Lithium iron phosphate			
Single battery module electricity	5.12kWh			
Number of battery modules	15	30	45	60
Battery system electricity	76.8kWh	153.6kWh	230.4kWh	307.2kWh
Running time	1.5 h (the duration can be customized by adjusting the number of battery modules)			
Cycle life	4000 times (0.5C@25°C charge and discharge@100%DOD, EOL80%)			
Protection				
DC switch	Equipped			
AC switch	Equipped			
Grid monitoring	Equipped			
Insulation monitoring	Equipped			
DC reverse connection protection	Equipped			
Ground fault protection	Equipped			
Surge protection	DC level 2/AC level 2			
Basic parameter				
Size (W*D*H) (mm)	1680*1502*1700	1680*2264*1700	1680*3026*1700	1680*3788*1700
Weight (kg)	1395kg	2470kg	3545kg	4620kg
Isolation mode	Non-isolated			
Protection grade	IP54 for outdoor type			
Working temperature range	-20°C—55°C (derating above 45°C)			
Relative humidity (without condensing)	0 ~ 95%			
Temperature control method	Electrical compartment: intelligent air cooling; Battery compartment: air conditioning			
Maximum working altitude	4000m(derating above 2,000 m)			
Display	Touch screen			
Communication interface	RS485、CAN、LAN			
Communication protocol	Modbus-RTU、Modbus-TCP、CAN2.0B			