Technical specifications

Parameter	GRES-75-50	GRES-150-100	GRES-225-150	
PV Parameters				
MPPT voltage range	DC200V～DC700V			
MPPT full power Volt range	DC370V～DC700V			
MPPT channel Qty	0-2（Optional）			
Single channel maximum current	135A			
AC grid connected parameters				
Nominal power (kW)	50	100	150	
Maximum power (kW)	55	110	165	
Nominal voltage (V)	3W+N+PE, 380/400			
Voltage range	-15% ～ +10%			
Nominal frequency (Hz)	50/60			
Frequency range (Hz)	±2			
Output harmonics	＜3%(nominal power)			
DC component	＜0.5%In			
Power factor	-0.9 ～+0.9 (Rated power)			
Overload capacity	(105%]: continuous operation; (105% ~ 120%]: 10min; (120%): stop operation			
AC off-grid parameters				
Nominal power (kW)	50	100	150	
Nominal voltage (V)	3W+N+PE, 380/400			
THDu	3%＠linear full load			
Nominal frequency(Hz)	50/60			
Overload capacity	(105%]: continuous operation; (105% ~ 120%]: 10min; (120%): stop operation			
Battery Parameter				
Cell type	LFP			
Module power (kWh)	5.12			
Module Qty	15	30	45	
System nominal power (kWh)	76.8	153.6	230.4	
Running time (h)	1.5 (Optional by changing module qty)			
Life cycle	4000 cycles （0.5C@25℃ charging&discharging @100%DOD, EOL80% ）			
Protection				
AC switch	YES			
DC switch	YES			
Grid monitoring	YES			
Surge protection	YES			
Basic Parameters				
Dimension（W*D*H）(mm)	1680*1502*1700	1680*2264*1700	1680*3026*1700	
Weight (kg)	1395	2470	3545	
Isolation	No			
On and off grid switch	STS			
Water/dust resistance rating (IP)	Outdoor IP54			
Operating temperature	-20 ～ 55℃ (>45℃ derating)			

Optimal humidity（No condensing）	0～95%
Cooling	Electrical cabin: intelligent air cooling; Battery cabin: air conditioner
Operating altitude (m)	4000(>2000 derating)
Data display	Touch screen
Communication interface	RS485、CAN、LAN
Protocol	Modbus-RTU, Modbus-TCP, CAN2.0B