

Solar On-grid inverter with Energy Storage Function

Off-grid | On-grid | Hybrid

Edge Golden



- Support APP monitoring
- IP65 protection level can be used for outdoor use
- The phased charging and discharging function is suitable for peak and valley electricity price applications
- Support three output modes: off grid, hybrid, and grid connected
- Support lithium battery BMS communication

Specification of Solar On-grid inverter with Energy Storage Function

Model	Edge Golden-40-H2-048S	Edge Golden-50-H2-048S	Edge Golden-60-H2-048S
Phase	Single Phase	Single Phase	Single Phase
Maximum PV Input Power	4500W	6000W	6600W
Rated Output Power	4000W	5000W	6000W
Maximum Charging Power	4500W	6000W	6600W
Grid-tie Operation			
PV Input(DC)			
Nominal DC Voltage / Maximum DC Voltage	500VDC		
Start-up Voltage / Initial Feeding Voltage	120VDC		
MPP Voltage Range	120~450Vdc		
Number of MPP Trackers / Maximum Input Current	1/22A		
Grid Output(AC)			
Nominal Output Voltage	230VAC		
Output Voltage Range	200/208/220/240Vac Settable±5%		
Nominal Output Current	17.4A	22A	26A
Power Factor	1		
Efficiency	>95%		
Maximum Conversion Efficiency (DC/AC)	>90%		
Off-grid Operation			
AC Input			
AC Start-up Voltage / Auto Restart Voltage	UPS:(170Vac~280Vac) ±2% APL:(90Vac~280Vac) ±2%		
Acceptable Input Voltage Range	170~280VAC		
Frequency Range	50/60HZ		
Maximum AC Input Current	40A		
PV Input(DC)			
Maximum DC Voltage	500VDC		
MPP Voltage Range	120~450Vdc		
Number of MPP Trackers/Maximum Input Current	1/22A		
Battery Mode Output(AC)			
Nominal Output Voltage	230VAC		
Output Waveform	Pure Sine Wave		
Efficiency (DC to AC)	>90%		
Hybrid Operation			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	500VDC		
Start-up Voltage /Initial Feeding Voltage	120VDC		
MPP Voltage Range	120~450Vdc		
Number of MPP Trackers / Maximum Input Current	1/22A		
Grid Output(AC)			
Nominal Output Voltage	230VAC		
Output Voltage Range	200/208/220/240Vac Settable±5%		
Nominal Output Current	17.4A	22A	26A
AC Input			
AC Start-up Voltage / Auto Restart Voltage	UPS:(170Vac~280Vac) ±2% APL:(90Vac~280Vac) ±2%		
Acceptable Input Voltage Range	170~280VAC		
Maximum AC Input Current	40A		
Battery Mode Output(AC)			
Nominal Output Voltage	230VAC		
Efficiency (DC to AC)	>90%		
Battery & Charger			
Nominal DC Voltage	48VDC		
Maximum Solar Charging Current	100A		
Maximum AC Charging Current	60A		
Maximum Charging Current	100A		
General			
Physical			
Dimension,D x W x H(mm)	556*345*182mm		
Net Weight (kgs)	19.2	19.5	20
Interace			
Parallel Function	/		
Communication Port	RS485/CAN/USB/Dry node control		
Environment			
Humidity	0-100%		
Operating Temperature	-25~55 °C,-45 °C		