



PSi14KW3#48VC

Features:

- >> Support different power inverters parallel connection
- >> 20 PCS inverters parallel for off-grid operation
- >> Support on/off grid mode switch, EPS output
- >> Colorful 5-inch touch LCD, IP65 protection degree
- >> Support battery charging/discharging according to the time setting
- >> Independent AC input port for diesel generator
- >> Support storing energy from diesel generator
- >> ARC fault detection optional
- >> 100% unbalanced output, each phase max. output up to 50% rated power



Technical Specifications

Model	PSi14KW48#3VC
Battery Input	
Battery Type	Lead-acid or Li-Lon
Battery Voltage Range (V)	40-60
Max. Charge Current (A)	280
Max. Discharge Current (A)	280
Charging Curve	3 Stages/Equalization
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS
PV String Input	
Max. DC Input Power (W)	20,000
PV Input Voltage (V)	650(160-800)
MPPT Range (V)	200-700
Full Load DC Voltage Range (V)	260-650
Start-up Voltage (V)	160
PV Input Current (A)	26+17
Max. PV Isc (A)	34+20
No. of MPPT Trackers	2
No. of Strings per MPPT Trackers	2+1
AC Output	
Rated AC Output and UPS Power (W)	14,000
Max. AC Output Power (W)	15,400
Peak PoWer(off grid)	1.8 times of rated power, 10s
AC Output Rated Current (A)	21.1/20.3
Max. AC Current (A)	27.6/26.4
Max. Continuous AC Passthrough (A)	50
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage (V)	50/60Hz, 380/400Vac(Triple phase)
Grid Type	Three phase
Current Harmonic Distortion	THD<3%(Linear load<1.5%)
Efficiency	
Max. Efficiency	97.90%
Euro Efficiency	96.90%
MPPT Efficiency	99.90%
Protection	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
PV ARC Fault Detection	Optional
Output Over Voltage Protection	DC Type II/AC Type III
General Data	
Operating Temperature Range (°C)	-45~60, >45 Derating
Cooling	Smart Cooling
Noise (dB)	≤45
Communication with BMS	CAN, RS485
Weight (kg)	45
Dimensions (mm)	510W×630H×290D
Protection Degree	IP65
Installation Style	Wall-mounted