



Hybrid Inverter

6kW-48V

SP-HYBRID



Low Failure Rate



No. of Parallel Support 12

- ✓ 3 years replacement
- ✓ 5 years service warranty



Strong Overload Capacity



Smart load (Additional Contactor)



Intelligent Air Cooling



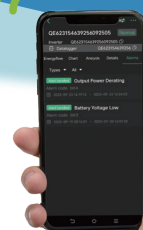
High Conversion Efficiency



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Model	IPV-6K48U
Efficiency	
MPPT Tracking Efficiency	99.9%
Max. Battery Mode Conversion Efficiency	93%
PV Input	
Max. PV Input Power	6000W
Max. DC Input Voltage	500V
Start-up Voltage	75V
MPPT Voltage Range	85V~450V
Max. Input Current	27A
Number of MPPT Trackers	1
AC Input	
Max. Grid Input Voltage (Absolute Maximum Ratings)	>380VAC
Input Voltage Range	90-280VAC
Maximum AC Input Current	50A
Nominal Operating Frequency	50/60Hz
AC Output	
Nominal AC Output Power	6000W
Max. Output Apparent Power	6000VA
Nominal AC Output Voltage	220/230/240VAC
Total Voltage Harmonic Distortion	<3%
Nominal AC Output Current	27.3A
Max. AC Output Current	54.6A (5seconds)
Nominal AC Frequency	50Hz/60Hz
Switch Time	10ms
Surge Power	12000VA
Load Capacity of Motor	5HP
Overload Capacity	10s@110%~150% load 5s@150%~200% load
Battery	
Battery Type	Lead-acid/Li-ion/User Defined
Rated Battery Voltage	48VDC
Battery Voltage Range	40V-60V
Max. MPPT Charging Current	120A
Max. Mains/Generator Charging Current	120A
Max. Battery Discharging Current	130A
General	
Dimensions D*W*H (mm)	120*346.6*444.7
Net Weight (kg)	15
Operating Temperature Range	-10~+55°C, >45°C Power Derating
Max. Operating Altitude	4000m, >2000m Power Derating
Communication	WIFI/RS485(BMS)/Dry Contact/RS232
Diesel Generator Support	Yes, External ATS
Smart Load Support	Yes, External Contactor
Number of Parallel	12
Cooling Method	Intelligent Fan Cooling
Noise	< 60dB
Authentication Level	IEC62109-1, IEC62109- 2, IEC61683
Protection	
Ingress Protection	IP54
Overvoltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC: TypeIII, AC: TypeIII