

Single Phase On&Off-grid Inverter PRO Series

SHH-PRO-6KW



SHH PRO series is equipped with Current Transformer to improve system accuracy and stability, and reduce current fluctuations. It is IP65 rated and supports peak load shifting. Suitable for outdoor installation in single-phase power environments such as households, schools, hospitals, shops, farms, factories, etc. with both on-grid and off-grid requirements.



Hybrid



Peak Load Shifting Function



Intelligent BMS Module that Supports Lithium Battery Activation and Wake Up



CT Function: Monitor and Reduce Current Fluctuations



UPS Function, Transfer Time < 10ms



Physical and Electrical Double Isolation, Multiple Protection



IP65 Design, 5 years Warranty , 10 years Lifespan

ADVANTAGES-FEATURES

ONESUN

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Technical Data

Model	SHH-PRO-6KW
Input Data	
Max. Power	7500W
Max. DC Voltage	550V
MPPT Input Voltage Range	90~450V
Max. Short Circuit Current	30A
MPPT Number / Max. Input Strings Number	1/2
AC Output Data	
Max. Output Current	27A
Grid Voltage / Range	230V / 176~270V
Frequency	50Hz / 60Hz
Power Factor	0.8 lagging~0.8 leading
THDI	<3%
AC Output Topology	L+N+PE
Efficiency (Peak)	94%
UPS Output	
Rated Power	6000W
Rated Output Voltage	220V / 230V / 240V
Rated Output Current	25A / 27A / 27.2A
Rated Frequency	50Hz / 60Hz
Transfer Time	<10ms
THDU	<2%
Overload Capacity	110%, 30S / 120%, 10S / 150%, 0.02S
Battery	
Battery Voltage Range	40~58V
Max. Charging Voltage	58V
Max. Charge/Discharge Current	100A / 140A
Battery Type	Lithium-ion/ Lead-acid
Protection	
Anti-island Protection	Yes
Insulation Monitoring	Yes
Residual Current Monitoring	Yes
Arc Fault Protection	Yes (Optional)
Parallel Function	Yes (Up to 6 Units)
Other Protection	AC overcurrent, AC overvoltage, Overtemperature Protection
General Data	
Ingress Protection Rating	IP65
Operation Temperature	-25°C~60°C (Derating occurs when >45°C)
Cooling	Smart Cooling
Relative Humidity	0%~95% (Non-condensing)
Altitude	> 2000m Derating
Dimensions (W*D*H)	360*195*660mm
Net Weight	Approx. 22.5kg
Isolation Transformer	No
Self-consumption	<5W
Display	Touch Screen
Communication	RS232 / CAN / RS485 (Optional: Bluetooth / WiFi / CT)
Safety Standard	EA/IEC 62109-1 EN/IEC62109-2; SONCAP