

# 6KW Single-phase Hybrid Inverter

## Features



- IP65 Rated**  
 Engineered to last with maximum flexibility. Suitable for outdoor installation.
- On-Grid and Off-Grid**  
 Suitable for on-grid and off-grid applications.
- Easy Access**  
 Accessible through a LCD touch screen and through the web.
- Remote Monitoring**  
 Control and monitor your smart system on the move via our monitoring App and website.
- BMS**  
 BMS Communication for lithium battery.
- Safe**  
 Physical and electrical dual isolation; Earth Leakage Current Monitoring; Anti-island protection; Insulation detection and so on
- 5 Years Warranty**  
 Supplied with a full manufacturers warranty
- Flexible Rate Tariff**  
 Charge from the grid at off-peak when energy cheaper, and discharge at peak when expensive.



Hybrid

10 Years Design Life



CE



## Product Parameters

Model	SUNIZE ESH-PRO6KW	
PV Input	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	MAX Output Current	27A
	Grid Voltage / Range	230V / 176~270V
	Frequency	50Hz / 60Hz
	PF	0.8 lagging~0.8 leading
	THDI	<3%
Battery	AC Output Topology	L+N+PE
	Battery Voltage Range	40~58V
	MAX Charging Voltage	58V
	MAX Charge/Discharge Current	100A / 140A
UPS Output	Battery Type	Li-ion / Lead-acid
	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
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 Parameter	Efficiency (Peak)	94%
	Degree of Protection	IP65
	Operation Temperature	-25°C~60°C (Derating occurs when >45°C)
	Cooling	Smart Cooling
	Relative Humidity	0%~95% (Non-condensing)
	Altitude	(Derating occurs when >2000m)
	Dimensions (W*D*H)	360*195*660mm
	Net Weight	Approx. 22.5kg
	Isolation Transformer	No
	Self-consumption	<5W
Display & Communication	Display	Touch Screen
	Interface	RS232 / CAN / RS485 (Optional: Bluetooth / WiFi / CT)
	Safety Standard	EN/IEC 62109-1, EN/IEC 62109-2
	Warranty	5 Years