



HYBRID INVERTER



- 01 75cm² Large Touchscreen Display
- 02 130A Max Discharge Current
- 03 Dual MPPT (120-450V)
- 04 AC Couple with Micro/String Inverter
- 05 IP65: Dustproof and Waterproof
- 06 Compatible with Diesel Generator
- 07 Built-in Logger with Monitor and Control
- 08 Sell Surplus Back to the Grid

Technical Parameter		SUNT-6.0kW-S	
Battery Input (DC Input)			
Supported Battery Type	LiFePO4 or Lead-Acid		
Battery Input Voltage Range (V)	40~60		
Max. Charge Voltage (V)	60 (Configurable)		
Max. Charge Current (A)	120 (Configurable)		
Max. Discharge Current (A)	130 (Configurable)		
Battery Capacity (Ah) (Recommend)	100~2000		
Charge for LiFePO4 Battery Pack	Communicating with BMS of the Battery Pack		
PV String Input (DC Input)			
Max. DC Input Power (W)	8000		
Max. DC Input Voltage (V)	500		
MPPT Voltage Range (V)	120~450		
Start-Up Voltage (V)	150		
Max. Input Current (A)	15x2 =30	2 MPPT Channels	
AC Output (Back-Up) Feed to Essential Load			
Max. Output Power (W)	6000		
Max. Output Apparent Power (VA)	6000		
Peak Output Apparent Power (VA)	12000		
Max. Output Current (A)	26		
Nominal Output Votage (Vac)	220/230/240 (Configurable) Single Phase		
Nominal Output Frequency (Hz)	50/60 (+/-0.2%) (Configurable)		
Max. Bypass Current (A)	42		
Shift Time (Bypass and Inverter) (ms)	10		
Output THD (Resistor Load)	<3%		
AC Input (On-Grid) Bypass to Essential Load/Charge the Battery/Feed to Home Load			
Max. Input Power (W)	6000		
Bypass to Essential Load/Charge the Battery			
Max. Output Power (W)	6000		
Feed to Home Load			
Max. Apparent Input Power (VA)	6000		
Bypass to Essential Load/Charge the Battery			
Max. Apparent Output Power (VA)	6000		
Feed to Home Load			
Nominal Input/Output Voltage (V)	220/230/240 (Auto Adjusted to Fit Home Grid) Single Phase		
Nominal Input/Output Frequency (Hz)	50/60 (Auto Adjusted to Fit Home Grid)		
Max. Bypass Current (A)	42		
Shift Time (Bypass and Inverter) (ms)	8		
Efficiency			
Max. Efficiency	97.60%		
Max. Battery to Load Efficiency	94.0%		
Europe Efficiency	97.60%		
MPPT Efficiency	99.9%		
Protection			
Integrated	Battery Over Charge Protection, Battery Low Voltage Protection, Over Temperature Protection , Output Overload Protection, Output Short Circuit Protection, Output Over Voltage Protection		
Certifications & Standards			
Grid Regulation & Safety EMC/Regulation	VDE-AR-N4105.UNE217001.G100; EN 50549-1; IEC 61727, IEC 62116, IEC 61683, IEC 62116; IEC/EN61000-6-1/3; IEC/EN62109-1/2		
General Data			
Protection Degree	IP65		
Size (LxWxH) (mm)	402×227×538		
Net Weight (kg)	26		