



SUNT-4.0/6.0kW-SH

HYBRID INVERTER

 Built-in WiFi/Bluetooth

 Cost-effective

 5 Sec Real-Time Cloud Monitoring

 IP65: Dustproof and Waterproof

 Smart Cooling System

 Works with or without Battery

Technical Parameter	SUNT-4.0kW-SH	SUNT-6.0kW-SH
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)	70 (Configurable)	120 (Configurable)
Max. Discharge Current (A)	90 (Configurable)	130 (Configurable)
Battery Capacity (Ah) (Recommend)	70~1000	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	9600
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	18x2 =36 2 MPPT
AC Output (Back-Up) Feed to Essential Load		
Max. Output Power (W)	4000	6000
Max. Output Apparent Power (VA)	4000	6000
Peak Output Apparent Power (VA)	8000	12000
Max. Output Current (A)	18	27
Nominal Output Votage (Vac)	220/230/240 (Configurable) Single Phase	
Nominal Output Frequency (Hz)	50/60 (+/-0.2%) (Configurable)	
Max. Bypass Current (A)	40	
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)		
Bypass to Essential Load/Charge the Battery	4000	6000
Max. Output Power (W)		
Feed to Home Load	4000	6000
Max. Apparent Input Power (VA)		
Bypass to Essential Load/Charge the Battery	4000	6000
Max. Apparent Output Power (VA)		
Feed to Home Load	4000	6000
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)	40	
Shift Time (Bypass and Inverter) (ms)	10	
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-N 4105; UNE 217001; G100; EN 50549-1; IEC 61727; IEC 62116; IEC 61683; IEC/EN 61000-6-1/3; IEC/EN 62109-1/2	
General Data		
Operating Temperature Range	-25°C~60°C (>35°C Derating)	
Protection Degree	IP65	
Size (LxWxH) (mm)	342×228×536	402×227×538
Net Weight (kg)	21	24