



SUNT-12.0kW-HT

HYBRID INVERTER



Built-in
WiFi/Bluetooth



Generator
Compatible



5 Sec Real-Time
Cloud Monitoring



IP41: Dustproof
and Waterproof



Smart Cooling
System



Works with or
without Battery



Smart Load Output



Up to 6 Units
in Parallel



Sell Back to Grid

Technical Parameter	SUNT-12.0kW-HT
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)	220 (Configurable)
Max. Discharge Current (A)	260 (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)	18000
Max. DC Input Voltage (V)	500
MPPT Voltage Range (V)	120~450
Start-Up Voltage (V)	150
Max. Input Current (A)	32x2 =64 2 MPPT
AC Output (Back-Up) Feed to Essential Load	
Max. Output Power (W)	12000
Max. Output Apparent Power (VA)	12000
Peak Output Apparent Power (VA)	24000
Max. Output Current (A)	55
Nominal Output Votage (Vac)	220/230/240 (Configurable) Single Phase
Nominal Output Frequency (Hz)	50/60 (+/-0.2%) (Configurable)
Max. Bypass Current (A)	63
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)	12000
Bypass to Essential Load/Charge the Battery	
Max. Output Power (W)	12000
Feed to Home Load	
Max. Apparent Input Power (VA)	12000
Bypass to Essential Load/Charge the Battery	
Max. Apparent Output Power (VA)	12000
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)	63
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℃~60℃ (>35℃ Derating)
Protection Degree	IP41
Size (LxWxH) (mm)	606×169×757
Net Weight (kg)	35.8