



SUNT-4.0/6.0/8.0kW-HP

HYBRID INVERTER



Built-in
WiFi/Bluetooth



Up to 6 Units
in Parallel



5 Sec Real-Time
Cloud Monitoring



IP41: Dustproof
and Waterproof



Smart Cooling
System



Works with or
without Battery

Technical Parameter	SUNT-4.0kW-HP	SUNT-6.0kW-HP	SUNT-8.0kW-HP
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)	60 (Configurable)	120 (Configurable)	150 (Configurable)
Max. Discharge Current (A)	90 (Configurable)	130 (Configurable)	180 (Configurable)
Battery Capacity (Ah) (Recommend)	70~1000	100~2000	100~2000
Charge for LiFePO4 Battery Pack	Communicating with BMS of the Battery Pack		
PV String Input (DC Input)			
Max. DC Input Power (W)	4800	8000	10000
Max. DC Input Voltage (V)	500		
MPPT Voltage Range (V)	120~450		
Start-Up Voltage (V)	150		
Max. Input Current (A)	15	15x2 =30 2 MPPT	23x2 =46 2 MPPT
AC Output (Back-Up) Feed to Essential Load			
Max. Output Power (W)	4000	6000	8000
Max. Output Apparent Power (VA)	4000	6000	8000
Peak Output Apparent Power (VA)	8000	12000	16000
Max. Output Current (A)	18	27	36
Nominal Output Votage (Vac)	220/230/240 (Configurable) Single Phase		
Nominal Output Frequency (Hz)	50/60 (+/-0.2%) (Configurable)		
Max. Bypass Current (A)	40	40	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)			
Bypass to Essential Load/Charge the Battery	4000	6000	8000
Max. Output Power (W)			
Feed to Home Load	4000	6000	8000
Max. Apparent Input Power (VA)			
Bypass to Essential Load/Charge the Battery	4000	6000	8000
Max. Apparent Output Power (VA)			
Feed to Home Load	4000	6000	8000
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	40	42
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	IP41		
Size (LxWxH) (mm)	307×134×466	353×135×536	419×140×592
Net Weight (kg)	10.1	13.7	20.5