



SUNT-6.0/10.0/12.0kW-3S HYBRID INVERTER

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Built-in WiFi/Bluetooth
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IP65: Dustproof and Waterproof
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75²cm LCD Touchscreen

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AC Couple with Micro/String Inverter
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Generator Compatible
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Up to 6 Units in Parallel

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5 Sec Real-Time Cloud Monitoring
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Works with or without Battery
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Sell Back to Grid

Technical Parameter	SUNT-6.0kW-3S	SUNT-10.0kW-3S	SUNT-12.0kW-3S
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)	180 (Configurable)	220 (Configurable)
Max. Discharge Current (A)	130 (Configurable)	240 (Configurable)	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)	9000	15000	18000
Max. DC Input Voltage (V)	700		
MPPT Voltage Range (V)	200~600		
Start-Up Voltage (V)	250		
Max. Input Current (A)	18x2 =36 2 MPPT	28x2 =56 2 MPPT	28x2 =56 2 MPPT
AC Output (Back-Up) Feed to Essential Load			
Max. Output Power (W)	6000	10000	12000
Max. Output Apparent Power (VA)	6000	10000	12000
Peak Output Apparent Power (VA)	12000	20000	24000
Max. Output Current (A)	16 (each of 3-phase)	18 (each of 3-phase)	23 (each of 3-phase)
Nominal Output Votage (Vac)	3L/N/PE 220V/380V 3L/N/PE 230V/400V		
Nominal Output Frequency (Hz)	50/60 (+/-0.2%) (Configurable)		
Max. Bypass Current (A)	40	63	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)			
Bypass to Essential Load/Charge the Battery	6000	10000	12000
Max. Output Power (W)			
Feed to Home Load	6000	10000	12000
Max. Apparent Input Power (VA)			
Bypass to Essential Load/Charge the Battery	6000	10000	12000
Max. Apparent Output Power (VA)			
Feed to Home Load	6000	10000	12000
Nominal Input/Output Voltage (V)	3L/N/PE 220V/380V 3L/N/PE 230V/400V		
Nominal Input/Output Frequency (Hz)	50/60 (Auto Adjusted to Fit Home Grid)		
Max. Bypass Current (A)	40	63	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°C~60°C (>35°C Derating)		
Protection Degree	IP65		
Size (LxWxH) (mm)	402×227×538	501×264×642	501×264×642
Net Weight (kg)	26	46	46