



- 01 AC Couple with Micro/String Inverter
- 02 80A Max Discharge Current
- 03 MPPT Voltage Range from 120-450V
- 04 Max Efficiency up to 97.6%
- 05 IP41: Dustproof and Waterproof
- 06 Compact and Elegant Design
- 07 Built-in Logger with Monitor and Control

Technical Parameter		SUNT-4.0kW-H
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)	
Max. Discharge Current (A)	90 (Configurable)	
Battery Capacity (Ah) (Recommend)	70~1000	
Charge for LiFePO4 Battery Pack	Communicating with BMS of the Battery Pack	
PV String Input (DC Input)		
Max. DC Input Power (W)	4800	
Max. DC Input Voltage (V)	500	
MPPT Voltage Range (V)	120~450	
Start-Up Voltage (V)	150	
Max. Input Current (A)	15	
AC Output (Back-Up) Feed to Essential Load		
Max. Output Power (W)	4000	
Max. Output Apparent Power (VA)	4000	
Peak Output Apparent Power (VA)	8000	
Max. Output Current (A)	18	
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)	4000	
Bypass to Essential Load/Charge the Battery		
Max. Output Power (W)	4000	
Feed to Home Load		
Max. Apparent Input Power (VA)	4000	
Bypass to Essential Load/Charge the Battery		
Max. Apparent Output Power (VA)	4000	
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)	40	
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	IP41	
Size (LxWxH) (mm)	307×134×466	
Net Weight (kg)	9.5	