

SunStorage PRO

STE-75/80/99/100/125HT-300

Integrated Design

Hybrid Inverter for
C&I Scenario



High Power & Performance

- 200% PV oversizing for higher yield
- 300A charge/discharge for high-capacity battery
- 165KVA backup peak for 10 seconds
- 24A PV input current per string



Advanced Energy Management

- AI EMS with PV forecasting Dynamic
- pricing & ToU optimization Accurate
- export control compliance Six
- preset operating modes



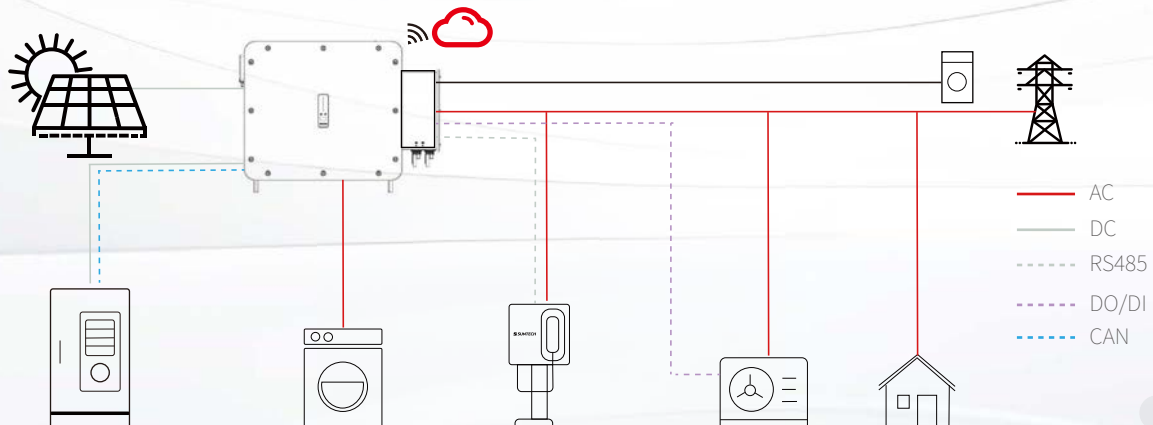
System Integration & Flexibility

- Dual independent battery ports
- On-grid / off-grid / parallel support
- Support diesel generator connection
- 100% unbalanced & half-wave loads



Industrial Reliability & Protection

- IP66 & C4 outdoor durability
- 330A high-current contactor
- <20 ms seamless transfer
- Auto-reverse fan dust removal



Models	STE-75HT-300	STE-80HT-300	STE-99HT-300	STE-100HT-300	STE-125HT-300
PV Side					
Max. PV Array Power(kWp)	150	160	200	200	250
Max. PV Input Voltage *(V)			1000*		
Rated PV Input Voltage(V)			620		
Start-up Voltage(V)			180		
MPPT Operating Voltage Range *(V)	160~950*	160~950*	160~950*	160~950*	160~950*
No. of MPP Trackers	6	6	6	6	6
No. of Strings per MPPT	3	3	3	3	3
Max. Input Current per MPPT(A)	6×48	6×48	6×48	6×48	6×48
Max. Short-circuit Current per MPPT(A)	6 × 60	6 × 60	6 × 60	6 × 60	6 × 60
Battery Side					
Battery Type			Lithium-ion		
Battery Voltage Range(V)			300-950		
No. of Battery Input			1 or 2		
Max. Charge/Discharge Current(A)			300 or 150+150		
Max. Charge/Discharge Power(kW)	75/75	80/80	100/100	100/100	125/125
Grid Side (On-Grid)					
Rated Output Power(kW)	75.0	80.0	99.0	100.0	125.0
Max. Output Apparent Power(kVA)	75.0	80.0	99.0	100.0	125.0
Rated AC Voltage(V)			3L/N/PE; 220/380V; 230/400V; 240/415V		
Rated AC Frequency(Hz)			50/60		
Rated Output Current(A)	113.6/108.7/104.2	121.2/115.9/111.1	150.0/143.5/137.5	151.5/144.9/138.9	189.4/181.2/173.6
Max. Output Current(A)	113.6	121.2	150.0	151.5	189.4
Power Factor			0.8 leading ...0.8 lagging		
THDi (@Rated Power)			< 3%		
Max. Input Apparent Power **(kVA)	150.0	160.0	198.0	200.0	207.0
Rated AC Voltage			3L/N/PE; 220/380V;230/400V;240/415V		
Rated AC Frequency(Hz)			50/60		
Max. AC Input Current(A)	227.8	227.8	243.1	243.1	273.4
Back-up Side (Off-Grid)					
Rated Output Power(kW)	75.0	80.0	99.0	100.0	125.0
Peak Output Apparent Power(kVA)	165 @10S	165 @10S	165 @10S	165 @10S	165 @10S
Rated Output Voltage(V)			3L/N/PE; 220/380V; 230/400V; 240/415V		
Rated Output Frequency(Hz)			50/60		
Rated Output Current(A)	113.6/108.7/104.2	121.2/115.9/111.1	150.0/143.5/137.5	151.5/144.9/138.9	189.4/181.2/173.6
On/Off-grid Switching Time			< 20ms		
THDv(@Linear Load)			< 3%		
Efficiency					
MPPT Efficiency			99.90%		
Max. Efficiency			98.10%		
European Efficiency	97.50%	97.50%	97.50%	97.60%	97.60%
Protection					
Integrated Protection	DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection(DC: Type I + II , AC: Type II) / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection				
General Data					
Dimensions(W*H*D mm)			1226x932x356		
Weight(KG)			164		
Ingress Protection			IP66		
Anti-corrosion Degree			C4		
Standby Self-consumption(W)			< 35		
Topology			Transformerless		
Operating Temperature Range(°C)			-30~60		
Relative Humidity(%)			0~100		
Max. Operation Altitude(m)			3000		
Over Voltage Category			II(PV+Battery), III(Mains)		
Cooling			Smart Fan		
Display			LED & OLED		
Communication			CAN, RS485		

* Max. PV input voltage is 950V, otherwise inverter will be waiting;

** Max input apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;