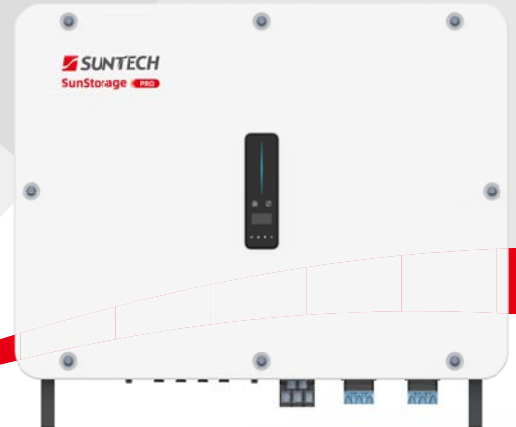


SunStorage PRO

STE-25/29.9/30/40/50HT-150

Integrated Design

Hybrid Inverter for
C&I Scenario



Exceptional Scalability & Yield

- Easily scale up with 10 parallel units
- High charging/discharging current
- Supports up to 200% PV oversizing



Robust Power Backup

- Allows 100% three-phase unbalanced AC output
- Delivers 150% peak output for 10s
- Supports diesel generator connection for uninterrupted power



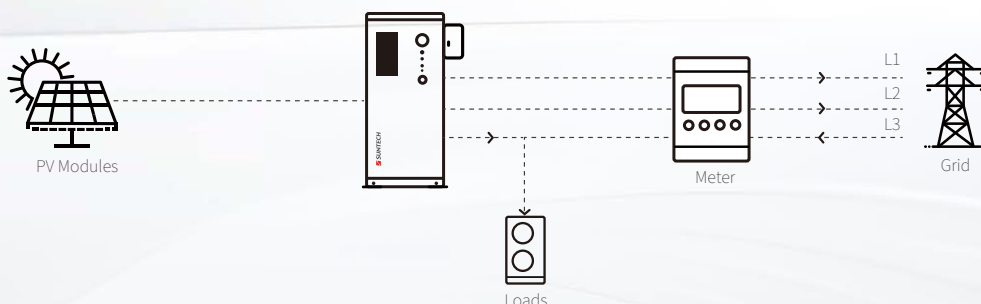
Smart Energy Management

- Profit from 15-min dynamic pricing and ToU
- Maximizes savings with intelligent peak shaving
- Switches seamlessly on and off-grid under 10ms



Industrial-Grade Security

- Ensures IP66 protection for extreme outdoor weather
- Includes Type II SPD on both AC/DC sides
- Integrates emergency stop function for immediate shutdown



Inverter Models	STE-25HT-150	STE-29.9HT-150	STE-30HT-150	STE-40HT-150	STE-50HT-150
PV Side					
Max. PV Array Power(kWp)	50	60	60	80	100
Start-up Voltage(V)	135	135	135	135	135
Max. PV Input Voltage(V)*	1000	1000	1000	1000	1000
Rated PV Input Voltage(V)	620	620	620	620	620
MPPT Operating Voltage Range(V)*	200~950	200~950	200~950	200~950	200~950
No. of MPP Trackers	4	4	4	4	4
No. of Strings per MPPT	2	2	2	2	2
Max. Input Current per MPPT(A)	40×4	40×4	40×4	40×4	40×4
Max. Short-circuit Current per MPPT(A)	50×4	50×4	50×4	50×4	50×4
Battery Side					
Battery Type	Lithium-ion				
Battery Voltage Range(V)	150-840				
No. of Battery Input	1				
Max. Charge/Discharge Current(A)	150/150				
Max. Charge/Discharge Power(kW)	25/25	30/30	30/30	40/40	50/50
Grid Side					
Rated Output Power(kW)	25	29.9	30	40	50
Max. Output Apparent Power(kVA)	25	29.9	30	40	50
Max. Input Apparent Power(kVA)**	50	60	60	80	80
Max. AC Input Current(A)	75.8	90.9	90.9	121.2	121.2
Rated AC Voltage(V)	3L/N/PE; 220/380;230/400;240/415				
Rated AC Frequency(Hz)	50/60				
Rated Output Current(A)	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7	60.6/58/55.6	75.8/72.5/69.4
Max. Output Current(A)	37.9	45.3	45.5	60.6	75.8
THDi (@Rated Power)	< 3%				
Power Factor	0.8 leading ...0.8 lagging				
Back-up Side					
Rated Output Power(kW)	25	29.9	30	40	50
Peak Output Apparent Power(kVA)	37.5@10s	45@10s	45@10s	60@10s	75@10s
Rated Output Current(A)	37.9/36.2/34.7	45.3/43.3/41.5	45.5/43.5/41.7	60.6/58/55.6	75.8/72.5/69.4
On/Off-grid Switching Time(ms)	< 10				
Rated Output Voltage(V)	3L/N/PE; 220/380;230/400;240/415				
Rated Output Frequency(Hz)	50/60				
THDv (@Linear Load)	< 3%				
Generator Side					
Max. Input Apparent Power(kVA)	30	36	36	48	60
Rated AC Voltage(V)	3L/N/PE; 220/380;230/400;240/415				
Rated AC Frequency(Hz)	50/60				
Max. Input Current(A)	45.5	54.5	54.5	72.7	90.9
Efficiency					
Max. Efficiency	97.60%				
European Efficiency	97.10%				
MPPT Efficiency	99.90%				
Max. Battery to AC Efficiency	97.50%				
Max. PV to Battery Efficiency	98.50%				
Protection					
Integrated Protection	DC reverse polarity protection/Battery input reverse connection protection/Insulation resistance protection / Surge protection(DC/AC: Type II/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)	919×739×305				
Ingress Protection	IP66				
Standby Self-consumption(W)	< 40				
Topology	Transformerless				
Noise Level(dB)	< 65				
Operating Temperature Range(°C)	-30~60				
Relative Humidity(%)	0~100				
Weight(KG)	90.5				
Max. Operation Altitude(m)	3000				
Over Voltage Category	II(PV+Battery), III(Mains)				
Cooling	Smart Fan				
Display	OLED & LED				
Communication	CAN, RS485				

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

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