

IntegOne for C&I

Energy Storage System

PTH-25/30/40/50K-S64/80/96/112.5kWh



Maximized Energy Harvesting

- 20A PV input current per string, 4 MPP trackers
- Expandable battery capacity up to 225KWh
- 150A charging/discharging current
- 100% unbalanced output enhances self-consumption
- Support parallel installation for on-grid and off-grid operation

Engineered for Versatility

- Supports half-wave loading
- 120% max backup @60s handles overloads
- Smart Load Control: Supports heat pumps, EV charging, and other smart loads.
- Integrated with DG port, support storing energy from diesel generator
- AC couple to retrofit existing solar system

Security Protection

- Four-level fire safety protection
- IP66 for inverter, IP55 for cabinet
- Type II SPD on AC&DC side

Intelligent Energy Management

- Remote upgrades maintain system health
- Five work modes for diverse use
- SuperToU Station Management: Supports flexible and customizable operation modes
- Support dynamic price function

Power Range 25-50kW
Storage Capacity 64.3-112.5kWh

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Battery Model		E2BR-S64K-C	E2BR-S80K-C	E2BR-S96K-C	E2BR-S112-C
Cell Type		LFP/314Ah			
Battery Module Quantity		4 Packs	5 Packs	6 Packs	7 Packs
Battery System Energy [kWh]		64.3	80.3	96.4	112.5
Depth of Discharge [%]		90%			
Rated Voltage [V]		204.8	256	307.2	358.4
Operatign Voltage Range [V]		160-233.6	200-292	240-350.4	280-408.8
Max. Charge/Discharge Current [A]		150			
Cycle Life		8000 (@25°C)			
Inverter Model		M2HT-25-150	M2HT-30-150	M2HT-40-150	M2HT-50-150
PV Input					
Recommended Max.input Power [kW]		40	48	64	80
Start-up Voltage [V]		210			
Max. DC Input Voltage [V]		1000			
Rated DC Input Voltage* [V]		620			
MPPT Voltage Range [V]		200-950			
No. of MPP Trackers*		4			
No. of DC inputs per MPPT		2			
Max. Input Current [A]		40×4			
Max. Short-circuit Current [A]		50×4			
Grid Side					
Rated Output Power [kW]		25	30	40	50
Max. Output Apparent Power [kVA]		25	30	40	50
Max. Input Apparent Power [kVA]		50	60	80	80
Max. Charging Power of Battery [kW]		25	30	40	50
Rated AC Voltage [V]		3L/N/PE; 220/380V;230/400V;240/415V			
Rated AC Frequency [Hz]		50/60			
Max. Output Current [A]		37.9	45.5	60.6	75.8
Power Factor		0.8 leading ...0.8 lagging			
Max. Total Harmonic Distortion		<3% @Rated Output Power			
DCI		<0.5%In			
Back-up Side					
Rated Output Power [kW]		25	30	40	50
Max. Output Apparent Power [kVA]		25	30	40	50
Max. Output Current [A]		37.9	45.5	60.6	75.8
On/Off-grid Switching Time [ms]		<20ms			
Rated Output Voltage [V]		3L/N/PE; 220/380V;230/400V;240/415V			
Rated Output Frequency [Hz]		50/60			
Voltage Harmonic Distortion		<3% @Rated Output Power			
Generator Side					
Max. Input Apparent Power [kVA]		30	36	48	60
Max. Charging Power of Battery [kW]		25	30	40	50
Rated AC Voltage [V]		3L/N/PE; 220/380V;230/400V;240/415V			
Rated AC Frequency [Hz]		50/60			
Max. Input Current [A]		90.9			
Efficiency					
Max. Efficiency		97.80%			
European Efficiency		97.20%			
Battery Charge/Discharge Efficiency		97.50%			
General Data					
Dimensions [W×H×D mm]		1377×2355×1140			
Weight [KG]		1330	1450	1570	1690
Ingress Protection		Cabinet: IP55; Inverter: IP65			
Anti-corrosion Degree		C4 (C5 Optional)			
Topology		Non-isolated			
Operating Temperature Range [°C]		-30~60			
Relative humidity		5 ~ 95% RH (non-condensing)			
Fire protection		Aerosol(Optional:Novec1230) / Water			
Altitude[m] [m]		≤3000			
Cooling method		Cabinet: Air conditioner; Inverter: Smart fan			
Display		OLED & LED			
Communication		CAN, RS485, WIFI/LAN			