

IntegOne for C&I

Energy Storage System

PTH-25/29.9/30/40/50K-S64/80/96/112.5kWh



Maximized Energy Harvesting

- 20A PV input current per string, 4 MPP trackers
- 150A charging/discharging current
- 100% unbalanced output enhances self-consumption
- Support parallel installation for on-grid and off-grid operation of AC-side

Engineered for Versatility

- Supports half-wave loading
- 150% max backup @10s 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
- Six work modes for diverse use
- 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		LiFePO4 / 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]		166.4-233.6		208-292		249.6-350.4		291.2-408.8			
Max. Charge/Discharge Current [A]		150									
Cycle Life		8000 (@25°C)									
Inverter Model		M2HT-25-150		M2HT-29.9-150		M2HT-30-150		M2HT-40-150		M2HT-50-150	
PV Input											
Recommended Max.input Power [kW]		40		48		48		64		80	
Start-up Voltage [V]		210		210		210		210		210	
Max. DC Input Voltage [V]		1000		1000		1000		1000		1000	
Rated DC Input Voltage* [V]		620		620		620		620		620	
MPPT Voltage Range [V]		200-950		200-950		200-950		200-950		200-950	
No. of MPP Trackers*		4		4		4		4		4	
No. of DC inputs per MPPT		2		2		2		2		2	
Max. Input Current [A]		40×4		40×4		40×4		40×4		40×4	
Max. Short-circuit Current [A]		50×4		50×4		50×4		50×4		50×4	
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. Charging Power of Battery [kW]		25		29.9		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		45.3		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		29.9		30		40		50	
Max. Output Apparent Power [kVA]		25		29.9		30		40		50	
Max. Output Current [A]		37.9		45.3		45.5		60.6		75.8	
On/Off-grid Switching Time [ms]		<10ms									
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		36		48		60	
Max. Charging Power of Battery [kW]		25		30		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]		75.8		90.9		90.9		121.2		121.2	
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]		1178		1291		1291		1404		1517	
Ingress Protection		Cabinet: IP55; Inverter: IP66									
Anti-corrosion Degree		C4 (C5 Optional)									
Topology		Non-isolated									
Operating Temperature Range [°C]		-30~50									
Relative Humidity		5%~95% RH (non-condensing)									
Fire Protection		Aerosol(Optional:Novec1230) / Water									
Altitude [m]		≤3000									
Cooling Method		Cabinet: Air conditioner; Inverter: Smart fan									
Display		OLED & LED									
Communication		CAN, RS485, WIFI/LAN									