IntegOne Business

All-in-One C&I Solar-Storage

PTH-75/80/99/100/125K-S208/225/241/257kWh



High Energy Performance

- 48A PV input current with 6 MPPTs for optimized PV yield
- 157A charge/discharge for high-power cycling
- 100% three-phase unbalance for diverse loads
- 160% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads



Flexible Power Architecture

- Up to 8 units on/off grid parallel, enabling MW-scale system capacity
- Integrated AC coupling for seamless PV retrofit
- Diesel generator compatibility for weak-grid sites
- AI-Based load forecasting for intelligent energy management

Robust Safety & Durability

- Four-level fire protection with multi-sensor detection
- Multi-system safety protection with integrated fire, water leakage, and door access alarms
- Intelligent monitoring of temperature, current, and voltage for stable operation
- IP66 inverter and IP55 cabinet with C4/C5 anti-corrosion for harsh outdoor environments



Intelligent Control & O&M

- Built-in EMS with multi-mode ToU scheduling
- Dynamic pricing for automated energy optimization
- <20 ms seamless off-grid switching
- Remote maintenance and enhance operation efficiency

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IntegOne Business Energy Storage System

Battery Model		E2BR-S208K-C	E2BR-S225K-C	E2BR-S241K-C	E2BR-S257K-C
Battery System Energy	[kWh]	208.9	225.1	241.1	257.2
Depth of Discharge		100% (95% recommand)			
Rated Charge/Discharge Power		0.5P			
Dimensions	[W×H×D mm]	1100×2393×1300			
Weight	[KG]	2170	2280	2390	2500
Ingress Protection		IP55			
Anti-corrosion degree		C4 (C5 Optional)			
Cooling		Air-conditioner			
Operating temperature range	[℃]	-20~50			
Cycle Life		8000			

Hybrid Inverter Model		M2HT-75K-300	M2HT-80K-300	M2HT-99K-300	M2HT-100K-300	M2HT-125K-300
PV Input						
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]	135				
MPPT Operating Voltage Range *	[V]	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]	48*6	48*6	48*6	48*6	48*6
Max. Short-circuit Current per MPPT	[A]	60*6	60*6	60*6	60*6	60*6
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 Output Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Output Frequency	[Hz]	50/60				
Rated Output Current	[A]	113.9/108.7/104.2	121.2/115.9/111.1	150/143.5/137.5	151.5/144.9/138.9	189.4/181.2/173.6
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Max. Input Apparent Power **	[kVA]	207				
Rated AC Input Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Input Frequency	[Hz]	50/60				
Max. AC Input Current	[A]	300				
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	150/143.5/137.5	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		98.00%				
European Efficiency		97.80%				
General Data						
Dimensions	[W×H×D mm]	1232×932×356				
Weight	[KG]	164				
Ingress Protection		IP66				
Anti-corrosion degree		C4				
Standby Self-consumption	[W]	< 35				
Topology		Transfomerless				
Operating Temperature Range	[℃]	-30~60				
Relative Humidity	[%]	0~100				
Max. Operation Altitude	[m]	3000				
Over Voltage Category		II(PV+Battery), III(Mains+Backup)				
Cooling		Smart Fan				
Display		LED & OLED				
Communication		CAN, RS485				

* The maximum PV input voltage is 950V. The inverter will stop operating when the voltage is between 950V and 1000V. The inverter will be damaged if the voltage exceeds 1000V;
** Max apparent power means the maximum power imported from the grid used to satisfy the backup loads and charge the battery;

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