IntegOne Business

All-in-One C&I Solar-Storage

PTH-75/80/99/100/125K-S209/225/241/257kWh

High Energy Performance

- 24A input current per string, 6 MPPTs for optimized PV yield
- 175A charge/discharge for high-power cycling
- 100% three-phase unbalance for diverse loads
- 165KVA backup overload for surge protection

Flexible Power Architecture

- Half-wave load support for industrial applications
- Up to 8-unit AC side or off-grid paralleling
- Diesel generator compatibility for weak-grid sites
- Smart control for EV chargers and heat pumps

Robust Safety & Durability

- Four-level fire protection with multi-sensor detection
- IP66 inverter and IP55 cabinet for outdoor resilience
- C4/C5 anti-corrosion for challenging environments
- Integrated distribution with breakers, SPD, and UPS power

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 monitoring and firmware updates

Preliminary

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IntegOne Business Energy Storage System

Battery Model		E2BR-S209K-C	E2BR-S225K-C	E2BR-S241K-C	E2BR-S257-C
Cell Type		LiFePO$_4$ / 314Ah			
Battery Module Quantity		13 Packs	14 Packs	15 Packs	16 Packs
Battery System Energy	[kWh]	209	225.1	241.1	257.2
Depth of Discharge		90%			
Battery Rated Range	[V]	665.6	716.8	768	819.2
Operating Voltage Range	[V]	540.8-759.6	582.4-917.6	624-876	665.6-934.4
Max. Charging/Discharge Current	[A]	157/157			
Rated Charge/Discharge Powe	[kW]	104.5	112.5	120.5	125
Dimensions	[W*H*D mm]	1100*2393*1300mm			
Weight	[KG]	2170	2280	2390	2500
Ingress Protection		IP55			
Cooling		Air-conditioner with 5kW Cooling and 3.7kW Heating			
Operating temperature range	[℃]	-20~50			
Cycle Life		8000@25℃, 0.5C, 90%DOD			

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]	180				
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]	6 x 48	6 x 48	6 x 48	6 x 48	6 x 48
Max. Short-circuit Current per MPPT	[A]	6 x 60	6 x 60	6 x 60	6 x 60	6 x 60
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]	113.9/108.3/104.3	121.6/115.5/111.1	150.4/1142.9/137.7	151.9/144.3/139.1	189.9/180.4/173.9
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 Input Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC Input 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]	113.9/108.3/104.3	121.6/115.5/111.1	150.4/1142.9/137.7	151.9/144.3/139.1	189.9/180.4/173.9
On/Off-grid Switching Time		<20ms				
THDv (@Linear Load)		<3%				
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		98.10%				
European Efficiency		97.50%		97.60%		
General Data						
Dimensions	[W×H×D mm]	1226×932×356				
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)				
Cooling		Smart Fan				
Display		LED & OLED				
Communication		CAN, RS485				

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

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