IntegOne Business

All-in-One C&I Solar-Storage

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



High Energy Performance

- 20A inputs with 4 MPPTs for optimized PV yield
- 150A charge/discharge for high-power cycling
- 100% three-phase unbalance for diverse loads
- 150% backup overload for surge protection



Flexible Power Architecture

- Half-wave load support for industrial applications
- Up to 10-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
- <10 ms seamless off-grid switching
- Remote monitoring and firmware updates

EN-INTEGONE-BUSINESS-PTH-NO2.01-2026
©2026 Solinteg Power Co., Ltd. All rights reserved.

sales@solinteg.com
www.soliteg.com

IntegOne Business Energy Storage System

System Model		PTH-25K	PTH-29.9K	PTH-30K	PTH-40K	PTH-50K
Rated AC Output Power	[kW]	25.0	29.9	30.0	40.0	50.0
Dimensions	[W×H×D mm]	1376×2262×1140				
Battery Expansion	[kWh]	64/80/96/112				
Operating Temperature Range	[℃]	-20~55				
Relative Humidity	[%]	5~95(non-condensing)				
Max. Operation Altitude	[m]	3000				
Cooling		Air-conditioner with 2kW Cooling and 2kW Heating				
Noise Level	[dB]	< 65				
Display		LED & OLED				
Communication		CAN, RS485				
Hybrid Inverter Model		**M2HT-25-150**	**M2HT-29.9-150**	**M2HT-30-150**	**M2HT-40-150**	**M2HT-50-150**
PV Input						
Max. PV Array Power	[kWp]	50	60	60	80	80
Max. PV Input Voltage *	[V]	1000				
Rated PV Input Voltage	[V]	620				
Start-up Voltage	[V]	135				
MPPT Operating Voltage Range *	[V]	200-950				
No. of MPP Trackers		4	4	4	4	4
No. of Strings per MPPT		2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2	2/2/2/2
Max. Input Current per MPPT	[A]	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
Max. Short-circuit Current per MPPT	[A]	50/50/50/50	50/50/50/50	50/50/50/50	50/50/50/50	50/50/50/50
Grid Side (On-Grid)						
Rated Output Power	[kW]	25.0	29.9	30.0	40.0	50.0
Max. Output Apparent Power	[kVA]	25.0	29.9	30.0	40.0	50.0
Rated AC Voltage		3L/N/PE; 220/380V;230/400V;240/415V				
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
Power Factor		0.8 leading ...0.8 lagging				
THDi (@Rated Power)		<3%				
Back-up Side (Off-Grid)						
Rated Output Power	[kW]	25.0	29.9	30.0	40.0	50.0
Peak Output Apparent Power	[kVA]	37.5@10s	45@10s	45@10s	60@10s	75@10s
Rated Output Voltage	[V]	3L/N/PE; 220/380V;230/400V;240/415V				
Rated Output 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
On/Off-grid Switching Time		<10ms				
THDv (@Linear Load)		<3%				
Generator Side						
Max. Input Apparent Power	[kVA]	30.0	36.0	36.0	48.0	60.0
Rated Input Voltage		3L/N/PE; 220/380V; 230/400V				
Rated Input Frequency	[Hz]	50/60				
Max. Input Current	[A]	45.5	54.5	54.5	72.7	90.9
Efficiency						
MPPT Efficiency		99.90%				
Max. Efficiency		97.80%				
European Efficiency		97.40%				
General Data						
Dimensions	[W×H×D mm]	919×739×305				
Weight	[KG]	89				
Ingress Protection		IP66				
Standby Self-consumption	[W]	<40				

Battery Model		E2BR-S64K-C	E2BR-S80K-C	E2BR-S96K-C	E2BR-S112-C
Battery Type		$LiFePO_4$ / 314Ah			
Battery Module Quantity		4 Packs	5 Packs	6 Packs	7 Packs
Rated Energy	[kWh]	64.3	80.3	96.4	112.5
Depth of Discharge		90%			
Battery Rated Range	[V]	204.8	256	307.2	358.4
Operating Voltage Range	[V]	166.4-233.6	208-292	249.6-350.4	291.2-408.8
Rated Charge/Discharge Power	[kW]	30.72	38.4	46.08	50
Max. Charging/Discharge Current	[A]	150/150			
Dimensions	[W×H×D mm]	1050×2262×1140			
Weight	[KG]	1101	1214	1327	1440
Ingress Protection		IP55			

* 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;

©2026 Solinteg Power Co., Ltd. All rights reserved.
sales@solinteg.com
www.soliteg.com