Energy Storage

Power-Box
TH10K-BE

Three-Phase Hybrid Inverter



KEY FEATURES

Energy Management

- Max. efficiency 98.2%
- DC 18 A current input, compatible with high-power PV module
- 100% three phase unbalanced output

Robust

- Built-in arc-fault circuit-interrupter
- IP66 protection
- SPD type II : DC & AC

Powerful Backup

- THDv < 2%
- 150% peak output power (60 s)
- Backup switch time < 10 ms

Smart O & M

- 24/7 online monitoring
- Smart remote diagnosis
- Firmware OTA updates

TECHNICAL PARAMETERS

Models	Power-Box TH10K-BE
Input (PV)	
Max. Input Power	15,000 Wp
Max. Input Voltage	1,000 V
Start-up Voltage	180 V
Rated Voltage	620 V
MPPT Voltage Range	160 V ~ 950 V
Max. Current per MPPT	18 A
Max. Short Circuit Current per MPPT	25 A
Number of MPP Trackers	2
Number of Strings per MPPT	1/1
Battery	
Compatible Battery	BYD Battery-Box HVE / HVB / HVS+ / HVM+
Battery Voltage	160 V ~ 600 V
Max. Charge / Discharge Current	25 A / 25 A
Max. Charge / Discharge Power	15,000 W / 15,000 W
AC Input / Output (Grid)	
Nominal Voltage	3 / N / PE, 230 V / 400 V
Nominal Frequency	50 Hz / 60 Hz
Nominal Output Power	10,000 W
Rated (Max.) Apparent Output Power	10,000 VA
Rated (Max.) Output Current	14.5 A
Rated (Max.) Input Power	15 kW
Rated (Max.) Input Current	21.8 A
Power Factor	0.8 (leading) ~ 0.8 (lagging)
THDi	≤ 3%
AC Output (Backup)	
Nominal Output Power	10,000 W
Peak Output Power	15,000 VA, 60 s
Backup Switch Time	10 ms
Nominal Voltage	3 / N / PE, 230 V / 400 V
Nominal Frequency	50 Hz / 60 Hz
THDv	≤ 2%
Efficiency	
MPPT Efficiency	> 99.90%
Max. Efficiency	98.20%
EU Efficiency	97.50%
Protection	
Anti Islanding Protection	Yes
Leakage Current Protection	Yes
PV Reverse Protection	Yes
Short Circuit Protection	Yes
Arc-fault Circuit-interrupter	Yes
Surge Protection	DC II / AC II
Battery Reverse Protection	Yes
General Data	
Operating Temperature Range	-25 °C ~ +60 °C
Relative Operating Humidity	0 ~ 100% RH
Operating Altitude	4,000 m (> 3,000 m Derating)
Cooling	Natural Convection
Dimensions (H / W / D)	537 mm × 577 mm × 206 mm
Weight	26 kg
Inverter Topology	Transformerless
Display	LED + App
Communication	WiFi / Ethernet, RS485, CAN
Ingress Protection	IP66
Standards Compliance	
Safety / EMC Standard	IEC 62109-1 / 2, IEC 61000-6, IEC 61000-3, IEC 62477
Grid Connection Standard	EN 50549-1 / -10, C10 / 11

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