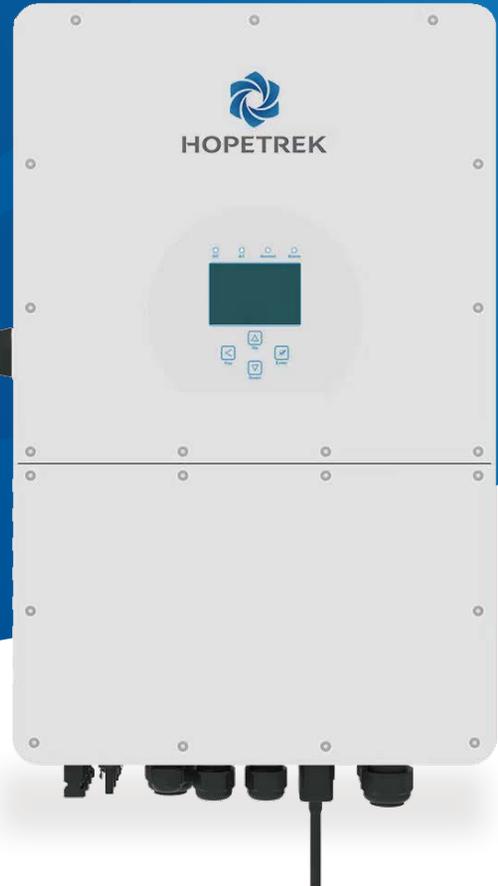




HOPETREK

TH-B Series Hybrid Inverter

ESS-TH15/20/25K



Key Features:

- Supports DC couple and AC couple to upgrade existing photovoltaic plants into energy storage systems.
- 6 time periods for battery charging/discharging; 4ms rapid switching to ensure critical loads remain powered without interruption.
- Smart Load/AC Couple Applications
Intelligently customizable for multi-scenario solutions; the critical load output interface can accommodate the connection of all electrical devices.
- Max. 10pcs parallel for on-grid and off-grid operation.
- 100% unbalanced output, each phase; Max. output up to 50% rated power.
- Supports a battery voltage range of 160-700V. The 25KW inverter supports a maximum charging/discharging current of 50A, offering greater charging/discharging power and higher conversion efficiency.
- Slash Your Energy Bill
Smart Peak Shaving and Optimal Charging Schedules.

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Specifications

Model	ESS-TH15K	ESS-TH20K	ESS-TH25K
Battery input parameter			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	160-700		
Max. Charging/Discharging Current(A)	37/37	37/37	50/50
Max. Charging/Discharging Power(KW)	15/15	20/20	25/25
PV String Input Data			
Max. DC Input Power(Wp)	19500	26000	32500
Max. DC Input Voltage (V)	1000		
Rated DC Input Voltage (V)	600		
Start-up Voltage (V)	180		
MPPT Voltage Range (V)	150-850		
No.of Mpp trackers	2		
No.of Strings per MPP Tracker	2+1	2+2	2+2
Max. PV Input Current (A)	26+20	26+26	26+26
Max. Short-Circuit Current (A)	39+30	39+39	39+39
Grid-connected Output Data			
Rated AC Output and UPS Power (W)	15000	20000	25000
Max. AC Output Apparent Power (VA)	165000	22000	27500
Rated Output Voltage and Frequency	3L/N/PE 220/380Vac, 230/400Vac; 50/60Hz		
Rated AC Output Current (A)	22.8/21.8	30.4/29.0	37.9/36.3
Max. AC Output Current (A)	25.0/24.0	33.4/31.9	41.7/39.9
Max. Three-phase Unbalanced Output Current (A)	30	35	41.7
Max. Continuous AC Passthrough (A)	80	80	80
Power Factor	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion (THDi)	<3%		
Off-grid Output Data			
Rated AC Output Power(VA)	15000	20000	25000
Max. AC Output Apparent Power (VA)	16500	2200	27500
Max. AC Output Current(A)	25.0/24.0	33.4/31.9	41.7/39.9
Rated AC Output Voltage and Frequency	3L/N/PE 220/380Vac, 230/400Vac; 50/60Hz		
Peak Power (off-grid)	1.5 times of rated power, 10 sec		
Off-grid Switching Time	<4ms		
Efficiency			
Max. Efficiency	97.60%		
European Efficiency	97%		
MPPT Efficiency	>99.90%		
General Data			
Weight (kg)	30.5		
Operating Temperature Range	-40 C ~+60°C		
Dimensions (W×H×D mm)	408*638*237		
Type of Cooling	Smart cooling		
Permissible Operating Altitude (m)	2000		
IP Level	IP65		
Communication	WIFI/RS485/CAN		
Display	LED/APP		
Certification Standard	VDE-AR-4105, IEC61727, IEC62116, VDE0126, AS4777.2, CEI0-21,EN50549-1,G98, G99		

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