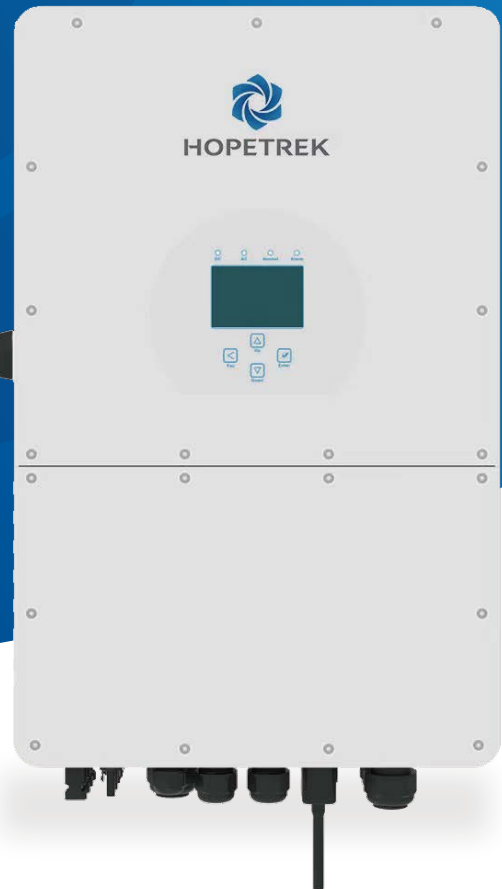




HOPETREK

TH-A Series Hybrid Inverter

ESS-TH5/6/8/10/12K



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.
- Slash Your Energy Bills; Smart Peak Shaving and Optimal Charging Schedules.

www.hopetrek.com

Email: Marketing@hopetrekpower.com

Disclaimer: All rights reserved, including final interpretation and content amendment.

Specifications

Model	ESS-TH5K	ESS-TH6K	ESS-TH8K	ESS-TH10K	ESS-TH12K
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-700				
Max. Charging/Discharging Current(A)	30	30	37	37	37
Max. Charging/Discharging Power(KW)	5/5	6/6	8/8	10/10	12/12
PV String Input Data					
Max. DC Input Power(Wp)	6500	7800	10400	13000	15600
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	1	1	1	1	2+1
Max. PV Input Current (A)	20+20	20+20	20+20	20+20	26+20
Max. Short-Circuit Current (A)	30+30	30+30	30+30	30+30	39+30
Grid-connected Output Data					
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000
Max. AC Output Apparent Power (VA)	5500	6600	8800	11000	13200
Rated Output Voltage and Frequency	3L/N/PE 220/380Vac,230/400Vac; 50/60Hz				
Rated AC Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	8.4/8.0	10.0/9.6	13.4/12.8	16.7/16.0	20.0/19.2
Max. Three-phase Unbalanced Output Current (A)	13	13	18	22	25
Max. Continuous AC Passthrough (A)	40	40	40	40	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)	5000	5000	8000	10000	12000
Max. AC Output Apparent Power (VA)	5500	6600	8800	1100	1320
Max. AC Output Current(A)	8.4/8.0	10.0/9.6	13.4/12.8	16.7/16.0	20.0/19.2
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)	2000m				
IP Level	IP65				
Communication	WIFI/RS485/CAN				
Display	LED/APP				
Certification Standard	VDE-AR-N 4105, IEC61727, IEC62116, VDE0126, AS4777.2, CEI0-21,EN50549-1,G98, G99				

www.hopetrek.com

Email: Marketing@hopetrekpower.com

Disclaimer: All rights reserved, including final interpretation and content amendment.



HOPETREK