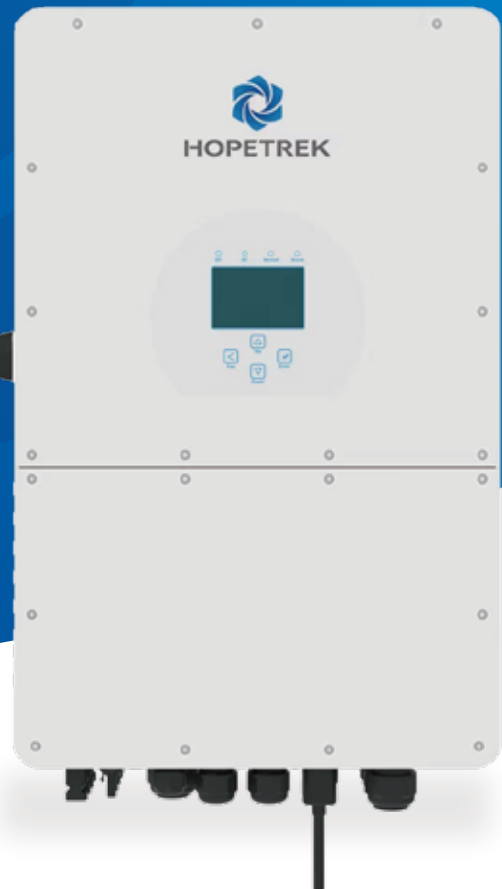




HOPETREK

TH-A Series Hybrid Inverter

ESS-TH8/10/12K



Key Features:

- DC couple and AC couple to retrofit existing solar system
- Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 100% unbalanced output, each phase; Max. output up to 50% rated power
- 6 time periods for battery charging/discharging
- High voltage battery, higher efficiency; Perfectly matched with a self-developed battery system
- Max. charging/discharging current of 37A
- Support storing energy from diesel generator

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Specifications

Model	ESS-TH8K	ESS-TH10K	ESS-TH12K
Battery input parameter			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	160-700		
Maximum charge/discharge current (A)	37/37		
Maximum charge/discharge power (KW)	8/8	10/10	12/12
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
Solar input			
Maximum input power (KW)	10.4	13	15.6
Maximum input voltage (V)	1000		
Rated DC input voltage (V)	600		
Starting voltage (V)	180		
MPPT Range (V)	150-850		
Number of Mpp trackers	2		
No.of Strings per MPP Tracker	1	1	2+1
PV Input Current (A)	20+20	20+20	26+20
Max. PV ISC (A)	30+30	30+30	39+30
Grid-connected output parameters			
Rated AC Output and UPS Power (W)	8	10	12
Max. AC Output Power (W)	8.8	11	13.2
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac		
AC Output Rated Current (A)	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Output Rated Current (A)	13.4/12.8	16.7/16	20/19.2
Max. Three-phase Unbalanced Output Current (A)	18	22	25
Max. Continuous AC Passthrough (A)	40	40	80
Power factor	0.8 leading to 0.8 lagging		
Total Harmonic Distortion (THD)	<3% (of nominal power)		
Off-network output parameters			
Rated output power (KVA)	8	10	12
Maximum output apparent power (KVA)	8.8	11	13.2
Maximum output current	13.4/12.8	16.7/16	20/19.2
Rated output voltage (V)	3L/N/PE 220/380, 230/400		
Output voltage Frequency (Hz)	50/60		
Peak Power (off grid)	1.5 time of rated power, 10 sec		
And off-grid switching time	<4ms		
Efficiency			
Maximum efficiency	97.60%		
European efficiency	97%		
MPPT efficiency	99.90%		
Weight (Kg)	30.5		
Operating temperature range	-40 C ~60 C		
Dimensions (width, height and thickness mm)	408*638*237		
Cooling mode	Smart cooling		
Maximum working altitude (m)	/		
IP level	IP65		
communication	RS485/CAN		
Human-computer interaction	LED/APP		
Certification standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI0-21,EN50549-1,G98, G99, C10-11, UNE217002, NBR16149/NBR16150		

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