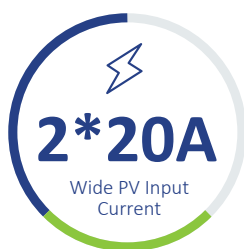




Three Phase Hybrid Inverter

HESS-HY-T-06K/08K/10K/12K

SMART ENERGY
SUSTAINABLE SOLUTIONS „



Easy-to-install

- Phoenix Contact connectors for reliable tool-free DC connection
- Compact wall mount design
- Simple battery and smart meter interfaces
- Compatible with high-voltage batteries

User-friendly

- Commissioning and monitoring via the Hanchu ESS app
- Intelligent work modes and customized battery management for DOD /Time of Use/Power Setting
- Max. 20 A input current, ideal for bifacial and high power PV module

Reliable

- IP66 rated design for outdoor use
- 150 % PV over-sizing array
- 100% unbalanced three phase AC output
- Shadow management - improved generation under non-ideal conditions
- UPS level switching time < 10 ms

Three Phase Hybrid Inverter

Model	HESS-HY-T-06K	HESS-HY-T-08K	HESS-HY-T-10K	HESS-HY-T-12K
PV Input				
Max. PV array power	9000 Wp	12000 Wp	15000 Wp	18000 Wp
Max. input voltage	1100 V			
MPPT voltage range / rated input voltage	150 V to 950 V / 630 V	200 V to 950 V / 630 V		
Min. input voltage / start voltage	60 V / 180 V			
No. of independent MPP trackers/ strings per MPPT input	2 / 1			
Max. input current per MPP tracker	20 A			
Max. short-circuit current per MPP tracker	30 A			
Battery Input				
Battery voltage range	120 V to 600 V			
Max. charging / discharging power	6000 W	8000 W	10000 W	12000 W
Rated charging current	30 A			
Rated discharging current	30 A			
Battery type	LiFePO4			
Compatible Battery	HANCHU HOME-ESS-HV			
AC Output				
AC voltage range /Nominal AC voltage	270 V to 480 V /3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415V			
Rated AC grid frequency	50 Hz / 60 Hz			
AC grid frequency range	45-55 Hz /55-65 Hz			
Rated apparent power	6000 VA	8000 VA	10000 VA	12000 VA
Max. apparent power	6000 VA	8000 VA	10000 VA	12000 VA
Rated grid output current(@400V)	8.7 A	11.6 A	14.5 A	17.4 A
Max. grid output current(@400V)	9.6 A	12.8 A	16.0 A	19.2 A
Harmonics THDi (@ Nominal power)	<3% (of nominal power)			
AC Input				
Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 /415 V			
Rated grid frequency	50 Hz / 60 Hz			
Max. input power from grid	12000 W	16000 W	20000 W	24000 W
Max. input current from grid	17.4 A	23.2 A	29.0 A	34.8 A
EPS Output				
Nominal output voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 /415 V			
Nominal output frequency	50 Hz / 60 Hz			
Rated apparent power	6000 VA	8000 VA	10000 VA	12000 VA
Peak output apparent power	2 times of rated power, 10 s			
Rated current(@400V)	8.7 A	11.6 A	14.5A	17.4 A
Max. switch time	< 10 ms			
Output THDv(@ Linear load)	2%			
Efficiency				
MPPT efficiency	99.9 %			
Euro efficiency / Max. efficiency	97.5 % / 98.2 %	97.9 % / 98.4 %		



Product Info



Official Website

 info@hanchuess.com  0510-88865288  www.hanchuess.com

 No.9 Huicheng Road,Huishan District,214177 Wuxi, Jiangsu, China

Three Phase Hybrid Inverter

Model	HESS-HY-T-06K	HESS-HY-T-08K	HESS-HY-T-10K	HESS-HY-T-12K
Safety Protection				
DC surge protection (Type II,according to EN/IEC 61643-11)	Integrated			
Insulation resistance detection	Integrated			
PV string input reverse polarity protection	Integrated			
Battery input reverse polarity protection	Integrated			
Ground fault monitoring	Integrated			
Residual current monitoring unit	Integrated			
AC short circuit protection	Integrated			
Anti-islanding protection	Integrated			
General Data				
Power factor at rated power /adjustable displacement	1 / 0.8 leading to 0.8 lagging			
Dimensions (W / H / D)	545 mm / 465 mm / 205 mm			
Weight	24.5 Kg			
Operating temperature range	-25°C ... +60°C			
Cooling concept	Natural convection			
Ingress Protection Degree	IP66			
Max. relative humidity	100 %			
Max. operating altitude	4000 m			
Features				
Number of Parallel	1~4 Units			
User interface	LED & APP			
BMS interface	CAN			
Smart meter interface	RS485			
Internet communication interfaces	WiFi / LAN / 4G / Bluetooth			
Digital output (dry contact) /No. of outputs	Integrated / 2			
Digital input (dry contact) /No. of inputs	Integrated / 4			
Integrated power control /export power control	Integrated / Integrated			
Certifications	EN 61000/IEC 62109/EN 50549/VDE 4105/VFR 201/G98/G99/G100/CEI 0-21/NEN			
Warranty	12 years			



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