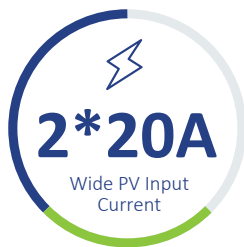




# Three Phase Hybrid Inverter

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
<b>PV Input</b>				
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			
<b>Battery Input</b>				
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			
<b>AC Output</b>				
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)			
<b>AC Input</b>				
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
<b>EPS Output</b>				
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%			
<b>Efficiency</b>				
MPPT efficiency	99.9 %			
Euro efficiency / Max. efficiency	97.5 % / 98.2 %	97.9 % / 98.4 %		



Product Info



Official Website

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 0510-88865288 
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# Three Phase Hybrid Inverter

Model	HESS-HY-T-06K	HESS-HY-T-08K	HESS-HY-T-10K	HESS-HY-T-12K
<b>Safety Protection</b>				
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
<b>General Data</b>				
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
<b>Features</b>				
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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