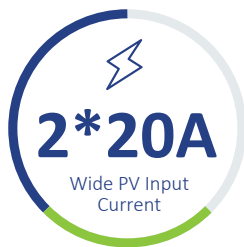




# Three Phase Hybrid Inverter

HESS-HY-T-05K/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-05K	HESS-HY-T-06K	HESS-HY-T-08K	HESS-HY-T-10K	HESS-HY-T-12K
<b>PV Input</b>					
Max. PV array power	7500 Wp	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	5000 W	6000 W	8000 W	10000 W	12000 W
Max. charging current /Max. discharging current	36 A				
Rated charging current /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	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Max. apparent power	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Rated grid output current(@400V)	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. grid output current(@400V)	8.0 A	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	10000 W	12000 W	16000 W	20000 W	24000 W
Max. input current from grid	14.5 A	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	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Peak output apparent power	2 times of rated power, 10 s				
Rated current(@400V)	7.3 A	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	97.2 % / 98.0 %	97.5 % / 98.2 %	97.9 % / 98.4 %		



Product Info



Official Website

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# Three Phase Hybrid Inverter

Model	HESS-HY-T-05K	HESS-HY-T-06K	HESS-HY-T-08K	HESS-HY-T-10K	HESS-HY-T-12K
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### 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

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	10 years



Product Info



Official Website

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