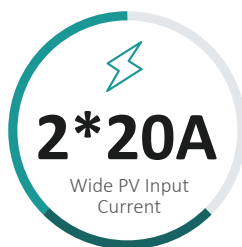




Three Phase Hybrid Inverter

SMART ENERGY
SUSTAINABLE SOLUTIONS „

HESS-HY-T-05K/06K/08K/10K/12K



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
PV Input					
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				
Battery Input					
Battery voltage range	120 V to 600 V				
Max. charging / discharging power	5000 W	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	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)				
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	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
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	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Peak output apparent power	2 mes 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%				
Efficiency					
MPPT efficiency	99.9 %				
Euro efficiency / Max. efficiency	97.2 % / 98.0 %	97.5 % / 98.2 %	97.9 % / 98.4 %		

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
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	