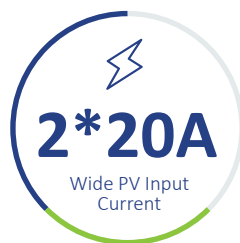




POWER YOUR HOME
POWER YOUR LIFE ”

Three Phase Hybrid Inverter

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
- ShadeSol - 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				
MPP 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
Max. charging current /Max. discharging current	36 A				
Rated charging current /Rated discharging current	30 A				
Battery type	LiFePO4				
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 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%				
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)					•
Insulation resistance detection					•
PV string input reverse polarity protection					•
Battery input reverse polarity protection					•
Ground fault monitoring					•
Residual current monitoring unit					•
AC short circuit protection					•
Anti-islanding protection					•
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
Degree of protection(as per IEC 60529)					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					• / 2
Digital input (dry contact) /No. of inputs					• / 4
Integrated power control /export power control					• / •



Product Info



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