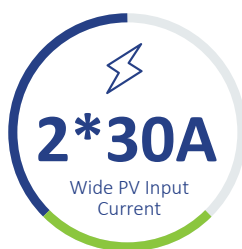




Three Phase Hybrid Inverter

HESS-HY-T-10K/12K/15K/20K-M4

SMART ENERGY
SUSTAINABLE SOLUTIONS „



Maximized Energy Harvesting

- 110% unbalanced output enhances self-consumption
- 40A charging/discharging for efficient energy transfer
- Continuous 110% AC overloading sustains power
- 10ms UPS-level switch secures supply

Simplified Interaction

- Remote upgrades maintain system health
- Indicators for quick status checks
- OLED and App for easy control

Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 200% max backup @60s handles overloads
- IP65 protects both indoors and outdoors

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency

Three Phase Hybrid Inverter

Type Designation	HESS-HY-T-10K-M4	HESS-HY-T-12K-M4	HESS-HY-T-15K-M4	HESS-HY-T-20K-M4
PV Input				
Max. Input Power	15.0kW	18.0kW	22.5kW	30.0kW
Start-up Voltage	135V			
Max. DC Input Voltage *	1000V			
Rated DC Input Voltage	620V			
MPPT Voltage Range *	200-950V			
No. of MPP Trackers	2			
No. of DC Inputs per MPPT	2			
Max. Input Current	30×2A			
Max. Short-circuit Current	40×2A			
Battery Side				
Battery Type	Lithium Battery (with BMS)			
Battery Voltage Range	135-750V			
Max. Charge/Discharge Current	40/40A			
Grid Side				
Rated Output Power	10.0 kW	12.0kW	15.0 kW	20.0 kW
Max. Output Apparent Power	11.0 ¹⁾ kVA	13.2kVA	16.5 ³⁾ kVA	22.0kVA
Max. Input Apparent Power **	20.0kVA	24.0kVA	30.0kVA	30.0kVA
Max. Charging Power of Battery	10.0 kW	12.0 kW	15.0 kW	20.0 kW
Rated AC Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated AC Frequency	50 Hz / 60 Hz			
Max. Output Current	16.5 ²⁾ A	20.0 A	25.0 ⁴⁾ A	33.5 A
Power Factor	0.8 leading ... 0.8 lagging			
Max. Total Harmonic Distortion	<3% @Rated output power			
DCI	<0.5%In			
Back-up Side				
Rated Output Power	10.0kW	12.0kW	15.0kW	20.0kW
Max. Output Apparent Power	11.0 kVA	13.2 kVA	16.5kVA	22.0 kVA
Max. Output Current	16.5A	20.0 A	25.0 A	33.5A
UPS Switching Time	<10ms			
Rated Output Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V			
Rated Output Frequency	50 Hz / 60 Hz			
Peak Output Apparent Power	15, 60s kVA	18, 60s kVA	22.5, 60s kVA	30, 60s kVA
Voltage Harmonic Distortion	<3% @Linear load			
Efficiency				
Max. Efficiency	98.4%			
European Efficiency	97.5 %			



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

Type Designation	HESS-HY-T-10K-M4	HESS-HY-T-12K-M4	HESS-HY-T-15K-M4	HESS-HY-T-20K-M4
Protection				
DC Reverse Polarity Protection	Integrated			
Battery Input Reverse Connection Protection	Integrated			
Insulation Resistance Protection	Integrated			
Surge Protection	Integrated			
Over-temperature Protection	Integrated			
Residual Current Protection	Integrated			
Islanding Protection	Integrated(Frequency shift)			
AC Over-voltage Protection	Integrated			
Overload Protection	Integrated			
AC Short-circuit Protection	Integrated			
General Data				
Over Voltage Category	PV: II; Main: III			
Dimensions (W×H×D)	534*418*210mm			
Weight	28.0kg		31.0kg	
Protection Degree	IP65			
Standby Self-consumption	<15W			
Topology	Transformerless			
Operating Temperature Range	-30~60℃			
Relative Humidity	0-100%			
Operating Altitude	3000m (>3000mderating)			
Cooling	Natural Convection			
Noise Level	<40dB			
Display	OLED & LED			
Communication	CAN, RS485,WiFi/LAN (Optional)			
Certifications	IEC 62109, EN 61000, EN50549-1, G98, G99, G100, CEI, NRS 097, NTS, VDE-4105, CEI 0-21, NEN			
Warranty	10 years			

* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting.

** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.

1) G98: 10.5kVA; 2)G98: 16.00A; 3) AS 4777.2: 15.0kVA; 4) AS 4777.2: 21.7A



Product Info



Official Website

✉ info@hanchuess.com ☎ 0510-88865288 🌐 www.hanchuess.com

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