HANERSUN

Three Phase Hybrid Inverter

- Hanersun three phase storage inverters are designed to increase energy independence for residential and commercial users. The power range is up to 30kW, compatible with high voltage (150-800V) batteries.
- Peak saving model significantly reduce the amount of energy purchased from public grid.
- UPS function (switch time < 10ms), enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

WIDE RANGE
Voltage Range(150-800V)

MAX. 40Adc
String Current Up To 40A

PV OVERSIZE
1.5 Times PV Oversize

UNBALANCE
Support Unbalance Load

UPS FUNCTION
Switch Time < 10ms

INPUT
Support Generator

Support for Time-of-use Optimization

AFCI (Optional) & Rapid Shutdown Ready

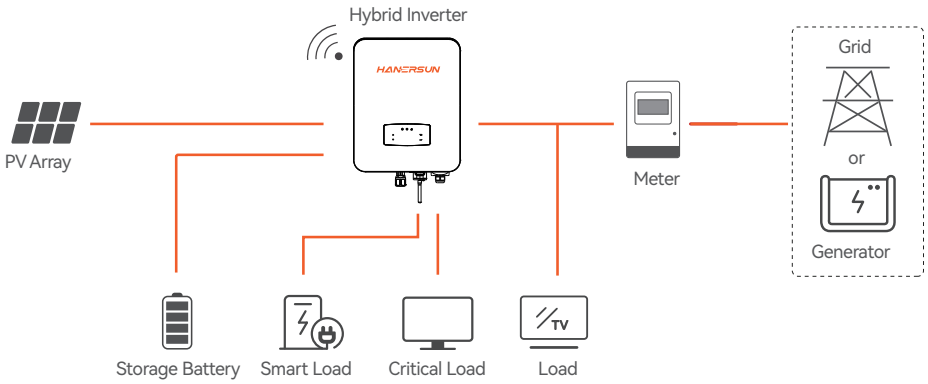
Configurable Operation Modes

100% unbalanced output, each phase;
200% unbalanced output, each phase (Below 10kW)

Build in Anti-feed-in Function

Smart Monitoring & Remote Firmware Upgrade

New Storage System



Tel: +86-25-52791766 Email: sales@hanersun.com Website: www.hanersun.com

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PV Inputs	HNI5K-HV	HNI10K-HV	HNI15K-HV	HNI20K-HV	HNI30K-HV
Max. DC Input Power (kW)	7.5	15	22.5	30	45
Max. PV Voltage (V)	1000	1000	1000	1000	1000
Rated DC Input Voltage (V)	620	620	620	620	620
DC Input Voltage Range (V)	150 - 1000	150 - 1000	150 - 1000	150 - 1000	150 - 1000
MPPT Voltage Range (V)	150 - 850	150 - 850	150 - 850	150 - 850	150 - 850
Full MPPT Range(V)	200 - 850	500 - 850	500 - 850	500 - 850	500 - 850
Start-up Voltage (V)	160	160	160	160	160
Max. DC Input Current (A)	20 x 2	20 x 2	20 + 32	32 x 2	40 x 2
Max. Short Current(A)	30 x 2	30 x 2	30 + 48	48 x 2	60 x 2
No. of MPPT Tracker / Strings	2/2	2/2	2/3	2/4	2/4
Battery Port					
Battery Nominal Voltage (V)	200	400	500	500	550
Battery Voltage Range (V)	150-800	150-800	150-800	150-800	150-800
Max. Charge/Discharge Current (A)	30	30	50	50	60
Max. Charge/Discharge Power (W)	5K	10K	15K	20K	30K
Charging Curve	3 Stages	3 Stages	3 Stages	3 Stages	3 Stages
Compatible Battery Type	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid	Li-ion / Lead-acid
AC Grid Output					
Nominal AC Output Power (VA)	5000	10000	15000	20000	30000
Max. AC Input Power	7500	15000	25500	30000	45000
Max. AC Output Current (A)	8.5	17	27	32	48
Nominal AC Voltage (V)	230/400	230/400	230/400	230/400	230/400
Nominal AC Frenquency (Hz)	50/60	50/60	50/60	50/60	50/60
Power Factor	1 (- 0.8 - 0.8)	1 (- 0.8 - 0.8)	1 (- 0.8 - 0.8)	1 (- 0.8 - 0.8)	1 (- 0.8 - 0.8)
Current THD (%)	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %
AC Load Output (Back-up)					
Nominal Output Power (VA)	5000	10000	15000	20000	30000
Nominal Output Voltage (V)	230/400	230/400	230/400	230/400	230/400
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Nominal Output Current (A)	7.3	14.5	21.8	29	43.5
Peak Output Power	5500VA, 60s	11000VA, 60s	16500VA, 60s	22000VA, 60s	33000VA, 60s
THDV (with linear load)	< 3 %	< 3 %	< 3 %	< 3 %	< 3 %
Switching Time (ms)	< 10	< 10	< 10	< 10	< 10
Efficiency					
Europe Efficiency	97.50%	97.50%	97.50%	97.80%	98.10%
Max. Efficiency	98.00%	98.20%	98.30%	98.30%	98.50%
Battery Charge/Discharge Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
Protection					
Reverse Polarity Protection			Yes		
Over Current / Voltage Protection			Yes		
Anti-islanding Protection			Yes		
AC Short-ciruit Protection			Yes		
Leakage Current Detection			Yes		
Ground Fault Monitoring			Yes		
Grid Monitoring			Yes		
Enclosure Protect Level			IP65		
General Data					
Dimensions (W x H x D, mm)			556 x 460 x 242 mm		
Weight (kg)	20kg	22kg	28kg	28kg	35kg
Topology			Transformerless		
Cooling Concept	Natural Convection	Intelligent Fan	Intelligent Fan	Intelligent Fan	Intelligent Fan
Relatively Humidity			0 - 100 %		
Operating Temperature Range (°C)			- 25 to 60 °C		
Operating Altitude (m)			< 4000		
Noise Emission (dB)	<30	<30	<40	<40	<40
Standby Consumption (W)			< 5		
Display & Communication Interfaces			CD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals			EN50549-1, VDE-AR-N4105, IEC62040, IEC62109-1, IEC62109-2		
EMC			EN61000-6-2, EN61000-6-3		