



HNI HV SERIES

Three Phase Hybrid Inverter

5-30 kW

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.



SZEROKI ZAKRES PRACY
Zakres (150-800V)

Max.
40A

MAX. 40A
String Current Up To 40A

Max.
1.5

MAKSYMALNE OBCIĄŻENIE
1.5 raza większa wytrzymałość



STABILIZACJA
Funkcja stabilizacji ładowania

<10
ms

FUNKCJA UPS
Szybkie przełączenie < 10ms



WEJŚCIA
Możliwość wpięcia generatora prądu



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)

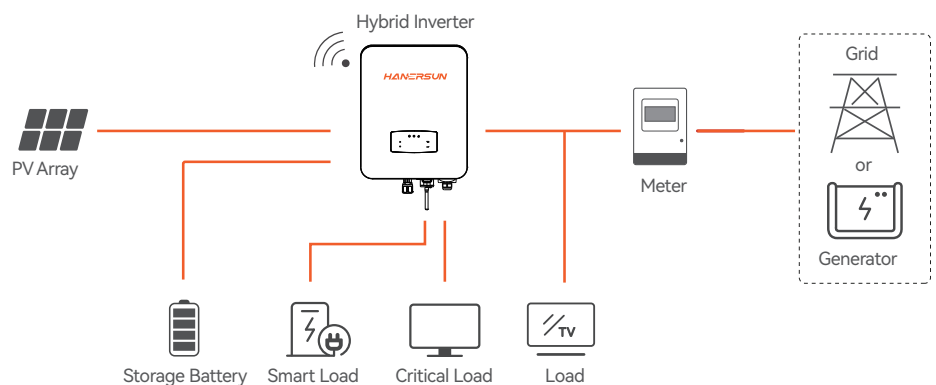


Built in Anti-feed-in
Function



Smart Monitoring & Remote Firmware Upgrade

New Storage System



| 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 Frequency (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-circuit 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 | | | | |