



HNI LV SERIES

Single Phase Hybrid Inverter

3/5 kw

Hanersun single phase storage inverters are designed to increase energy independence for residential users. The power range is up to 6kW, compatible with low voltage (40-60V) 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.



INPUT
Support Generator



2 MPPT **MPPT CHANNELS**
Up to 2 MPPT Channels



Max. 1.5 **PV OVERSIZE**
1.5 Times PV Oversize



PARALLEL
Max.6 Parallel Stacking



<10 ms **UPS FUNCTION**
Switch Time < 10ms



Support for Time-of-use Optimization



Arc Fault Circuit Interrupter (AFCI) (Optional)



Configurable Operation Modes



Compact Size and Easy Installation

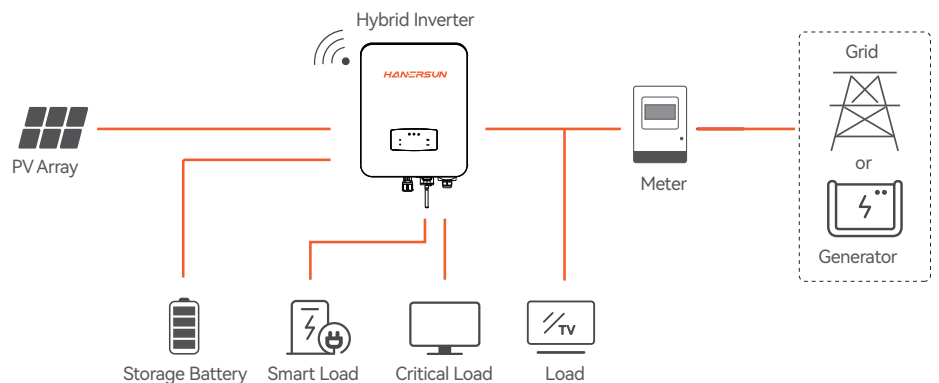


Built in Anti-feed-in Function



Smart Monitoring & Remote Firmware Upgrade

New Storage System



PV Inputs	HNI3K-LV	HNI5K-LV
Max. Input Power (kW)	4.5	7.5
Max. PV Voltage (V)	550	550
MPPT Range (V)	80-500	80-500
Full MPPT Range (V)	90-500	150-500
Normal Voltage (V)	360	360
Startup Voltage (V)	100	100
Max. Input Current (A)	18.5 x 2	18.5 x 2
Max. Short Current (A)	26 x 2	26 x 2
No. of MPP Tracker / No. of PV String	2/2	2/2
Battery Port		
Max. Charge/Discharge Power (kW)	3.0	4.8
Max. Charge/Discharge Current (A)		80
Battery Normal Voltage (V)		51.2
Battery Voltage Range (V)		40-60
Battery Type	Li-ion / Lead-acid etc.	
AC Grid		
Max Continuous Current (A)	14.0	23.0
Max Continuous Power (kVA)	3.0	5.0
Nominal Grid Current(A)	13.7/13.1	22.8/21.8
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230	
Nominal Grid Frequency (Hz)	50 / 60	
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)	
Current THD (%)	< 3	
AC Load Output		
Max Continuous Current (A)	14.0	23.0
Max Continuous Power (kVA)	3.0	5.0
Max Peak Current (A) (10min)	20.5/19.6	34.1/32.7
Max Peak Power (kVA) (10min)	4.5	7.5
Nominal AC Current (A)	13.7/13.1	22.8/21.8
Nominal AC Voltage L-N (V)	220 / 230	
Nominal AC Frequency (Hz)	50 / 60	
Switching Time (s)	Seamless	
Voltage THD (%)	< 3	
Efficiency		
CEC Efficiency (%)	97.0	
Max. Efficiency (%)	97.6	
PV to Bat. Efficiency (%)	98.1	
Bat. between AC Efficiency (%)	96.8	
Protection		
PV Reverse Polarity Protection	Yes	
Over Current/Voltage Protection	Yes	
Anti-Islanding Protection	Yes	
AC Short Circuit Protection	Yes	
Residual Current Detection	Yes	
Ground Fault Monitoring	Yes	
Insulation Resister Detection	Yes	
PV Arc Detection	Yes	
Enclosure Protect Level	IP65 / NEMA4X	
General Data		
Dimensions (W x H x D, mm)	370 x 513 x 192 mm	
Weight (kg)	17Kg	
Topology	Transformerless	
Cooling	Intelligent Fan	
Relatively Humidity	0-100%	
Operating Temperature Range (°C)	- 25 to 60	
Operating Altitude (m)	< 4000	
Noise Emission (dB)	<25	
Standby Consumption (W)	<10	
Mounting	Wall Bracket	
Communication with RSD	SUNSPEC	
Display & Communication Interfaces	LCD, 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	