



HNI LV SERIES

Single Phase Hybrid Inverter

1-6 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

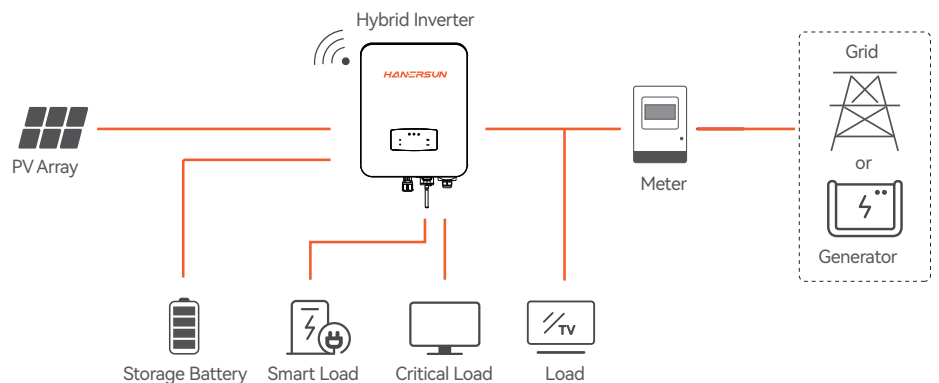


Built in Anti-feed-in Function



Smart Monitoring & Remote Firmware Upgrade

New Storage System



PV Inputs	HNI3K-LV	HNI4K-LV	HNI5K-LV	HNI6K-LV
Max. Input Power (kW)	4.5	6.0	7.5	9.0
Max. PV Voltage (V)			550	
MPPT Range (V)			80-500	
Full MPPT Range (V)	90-500	120-500	150-500	170-500
Normal Voltage (V)			360	
Startup Voltage (V)			100	
Max. Input Current (A)			18.5 x 2	
Max. Short Current (A)			26 x 2	
No. of MPP Tracker / No. of PV String			2/2	
Battery Port				
Max. Charge/Discharge Power (kW)	3.0	4.0	4.8	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	19.0	23.0	28.0
Max Continuous Power (kVA)	3.0	4.0	5.0	6.0
Nominal Grid Current(A)	13.7/13.1	18.2/17.4	22.8/21.8	27.3/26.1
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	19.0	23.0	28.0
Max Continuous Power (kVA)	3.0	4.0	5.0	6.0
Max Peak Current (A) (10min)	20.5/19.6	27.3/26.1	34.1/32.7	41.0/39.2
Max Peak Power (kVA) (10min)	4.5	6.0	7.5	9.0
Nominal AC Current (A)	13.7/13.1	18.2/17.4	22.8/21.8	27.3/26.1
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		