

# HM118 Series

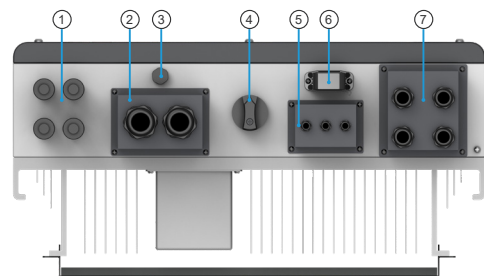
3.6~6KW | Single Phase | 230VAC

This is a flexible and intelligent energy storage solar inverter with a wide range of MPPT Voltage. Combining functions of off grid and on grid. This hybrid solar inverter can power all kinds of appliances in home or office, and can also be used in power stations.



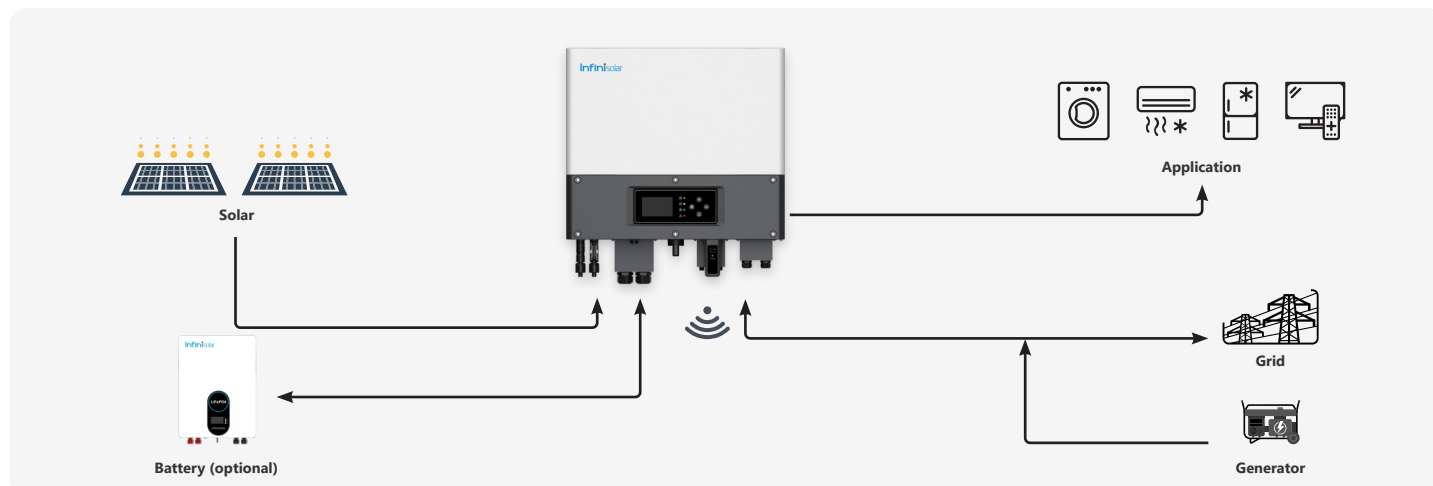
- Multiple operation modes: Grid-tie, off grid with storage backup
- IP65 water-proof and dust-proof
- MPPT voltage range 120-500V
- Support LCD display & Smart LCD setting
- Available Export control CT sensor function
- Multiple communications: USB, RS485, GPRS and wifi etc
- Full protection function: Over-voltage, over-frequency, over-current, over-temperature, and AC short-circuit automatic protection
- Intelligent BMS battery management function
- Fanless low-noise design
- Wifi monitoring

## Back panel description



1. PV input terminals
2. Battery input terminals and cover
3. Breather valve
4. PV input switch
5. BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
6. Wi-Fi commodule
7. AC output terminals and cover

## Solar system connection



## Specification

MODEL	HM118-3648	HM118-4048	HM118-4648	HM118-5048	HM118-6048
Rated power	3600W	4000W	4600W	5000W	6000W
Nominal Battery System Voltage	48V				
<b>PV INPUT(DC)</b>					
Maximum recommended DC power	4000W	5000W	5500W	6000W	7000W
Nominal DC operating voltage	360V				
Maximum DC voltage	500V				
MPPT voltage range	120V~500V				
Maximum input current	15A / 15A				
No. of MPP tracker	2				
Strings per MPP tracker	1				
<b>INVERTER INPUT/ OUTPUT(AC)</b>					
Nominal AC input/ output power	3600W	4000W	4600W	5000W	6000W
Nominal input/ output voltage; range	220/230/240V; 180-280V				
AC grid frequency; range	50/60Hz; 45~55/55~65Hz				
Nominal input/ output current	15.6A	17.5A	20A	21.7A	26A
Maximum input/ output current	16A	18.1A	20.8A	22.7A	27.2A
Inrush current (spike/duration)	57.5A/5.2us				
Total harmonic distortion i (THDi)	<3%				
Power factor at rated power	1				
Displacement power factor	0.8leading ~ 0.8lagging				
Grid type	Single phase				
<b>BATTERY MODE OUTPUT(AC)</b>					
Output Rated Power	3600W	4000W	4600W	5000W	6000W
Nominal output voltage; accuracy range	230±1%				
Output frequency; accuracy range	50/60Hz (optional)±0.2%				
Output rated current	15.6A	17.5A	20A	21.7A	26A
Output waveform	Pure sine wave				
Peak power	5400W,10s	6000W,10s	6900W,10s	7500W,10s	9000W,10s
Total harmonic distortion v (linear load)	<3%				
<b>BATTERY &amp; CHARGER</b>					
Battery type	Lead-acid battery / Lithium battery				
Battery voltage	48V				
Battery voltage range	40~60V				
Charging curve	3-stage adaptive with maintenance				
Protection	Over-current protection / Over-temperature protection				
Maximum charging power	3600W	4000W	4600W	5000W	6000W
Maximum charging current	75A	85A	95A	100A	125A
<b>EFFICIENCY</b>					
Maximum efficiency	97.1%				
Euro-efficiency	96.5%				
MPPT efficiency	99.8%				
<b>PROTECTION DEVICES</b>					
DC switch rating for each MPPT; Grid monitoring; Output over current protection; Output overvoltage protection-varistor; Ground fault monitoring; Integrated all-pole sensitive leakage current					
<b>GENERAL</b>					
Machine Dimension (W*H*D)(mm)	420*480*215				
Package Dimension (W*H*D)(mm)	610*327*595				
N.W(kg)	30				
G.W(kg)	32				
DC connection	H4 / MC4				
AC connection	Terminal Block				
Display	LED+LCD				
Communication interfaces	Wi-Fi / USB / GPRS / RS485				
Ingress protection rating	IP65				
Humidity	0~95% RH(No condensing)				
Operating temperature range	-20°C+60°C With derating above 45°C				
Cooling concept	Natural				
Altitude	<3000m				