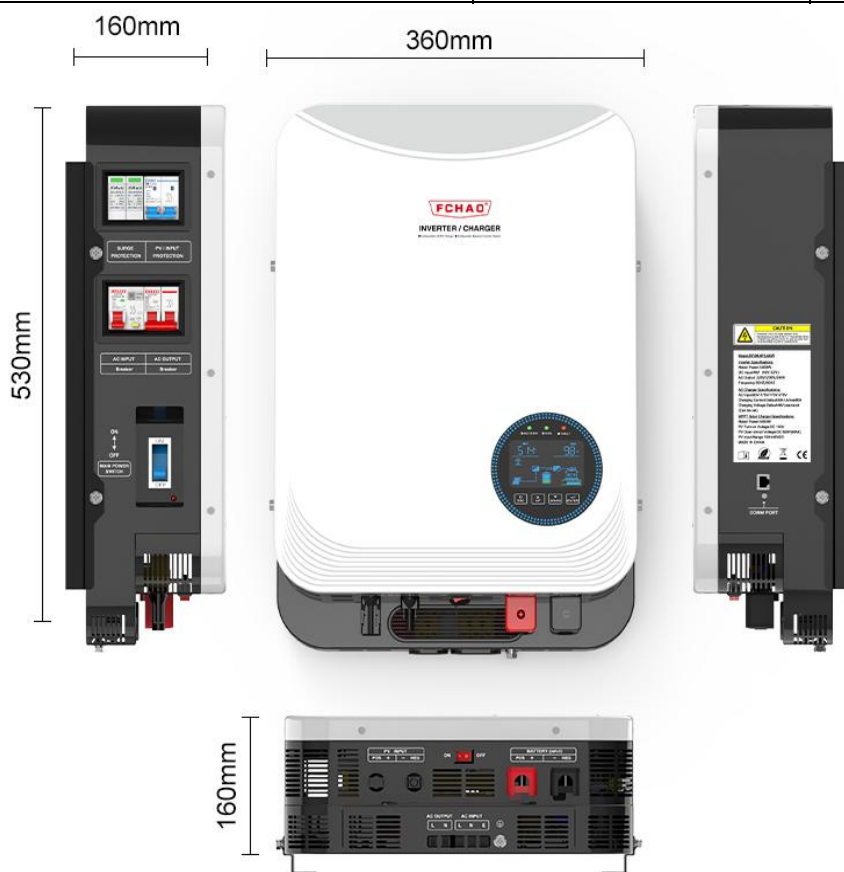


Shenzhen Fangchao Technology Co.
Zhongshan Fangchao New Energy Co.

产品技术规格书
Product specifications

| | |
|---------|---|
| Model : | 0918KHP-6.2KW-HL built-in combiner box |
| 版本: | V1.0 |
| 编制: | 李涛 |
| 审核: | 余前刚 |

客户确认签章



Product Description:

This unit is a hybrid inverter/charger that combines the functions of an "Inverter/Solar Charger/AC Charger/UPS".

Featuring a comprehensive LCD liquid display, it provides user-settable and easy-to-access operation buttons for functions such as: battery charging current, AC/solar charger priority, etc., as well as acceptable input voltage and parameter settings based on different applications.

Applications: rooftop photovoltaics, caravans, bed cars, yachts, household appliances, power tools, office and portable equipment, etc!

特点

specificities

- Pure sine wave output
- Configurable DC input voltage range
- Configurable battery charging voltage
- Configurable battery float voltage
- Configurable battery charging current
- Configurable battery hybrid charging
- Configurable AC/Solar Charger Priorities
- Configurable AC output voltage
- Configurable AC output frequency
- Configurable UPS mode switching priority
- Configurable LCD display mode
- Configurable energy-saving modes, supporting PV and battery-free operation, with complete protection circuits and monitoring systems
- Intelligent battery charger designed to optimise battery performance, battery equalisation mode, Li-ion battery feed activation.
- Translated with www.DeepL.com/Translator (free version)

0918KHP - 6.2KW -HL

0918KHP - Product Series

4.2KW - output power

HL-Appearance version

■ Electrical Specifications

Table 1: AC Line Mode Specification Sheet (UPS Bypass or Charge)

| | |
|---------------------------------|--|
| Specification Model | 0918KHP6.2KW -HL |
| Input Voltage Waveform | Sine wave (utility grid or generator) |
| Nominal Input Voltage | 230Vac |
| Low Loss Voltage | 170Vac±7V (UPS旁路); 90Vac ±7V (Appliances) |
| Low loss return voltage | 180Vac±7V (UPS旁路); 100Vac±7V (Appliances) |
| High loss voltage | 280Vac±7V |
| High loss circuit voltage | 270Vac±7V |
| Maximum AC input voltage | 300Vac |
| Nominal Input Frequency | 50Hz/60Hz (automatic detection) |
| Low loss frequency | 40±1Hz |
| Low loss return frequency | 42±1Hz |
| High loss frequency | 65±1Hz |
| High loss return frequency | 63±1Hz |
| Output short circuit protection | interrupter |
| Efficiency (line mode) | >95% (Rated R load, fully charged battery) |
| UPS switching time | 10ms (UPS旁路); 20ms (Appliances) |

Output power is reduced:
When the AC input voltage drops
to 170V, the output power drops.
Derating Curve Diagram→

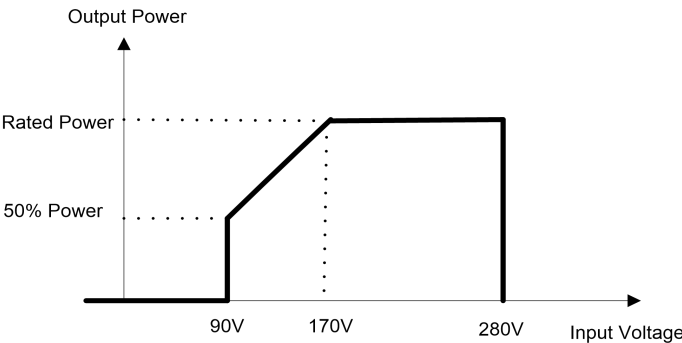


Table 2 Inverter mode specification table

| | |
|----------------------------------|--|
| Inverter Specifications | 0918KHP6.2KW-HL |
| Rated output power | 6.2KW |
| Output Voltage Waveform | pure sine wave |
| output voltage | 230Vac±5% |
| output frequency | 50Hz/60HZ |
| Maximum efficiency | 93% |
| overload protection | 5s@≥150% 负载; 10s@110%~150% 负载 |
| Surge Capacity/Peak Power | 1x/(2 x rated power 5 s) |
| DC input voltage range | 48Vdc-63Vdc |
| DC Cold Start POWER On Voltage | 44.0Vdc |
| Low Pressure Alert | @ load ≥ 50% 42.0Vdc @ load < 50% 44.0Vdc |
| Low Voltage Recovery | 44.0Vdc |
| Undervoltage protection/shutdown | @ Load ≥ 50% 40.0Vdc @ Load < 50% 41.0Vdc |
| Undervoltage recovery/power on | Reset POWER |
| Battery Overvoltage Recovery | 62.0Vdc |
| Battery overvoltage protection | 63.0Vdc |
| No-load power consumption | ≈0.5A |

Table 3: Charging mode specification table

Utility grid charging mode

| | |
|-------------------------------------|------------------------------------|
| Inverter Model | 0918KHP6.2KW-HL |
| charging mode | 3-段式 |
| Maximum charging current (AC input) | Default 30A / Programmable MAX 80A |
| Maximum charging voltage (C.V) | 56.4Vdc (Default/Settable) |
| Floating Charge Voltage | 54.0Vdc (Default/Settable) |

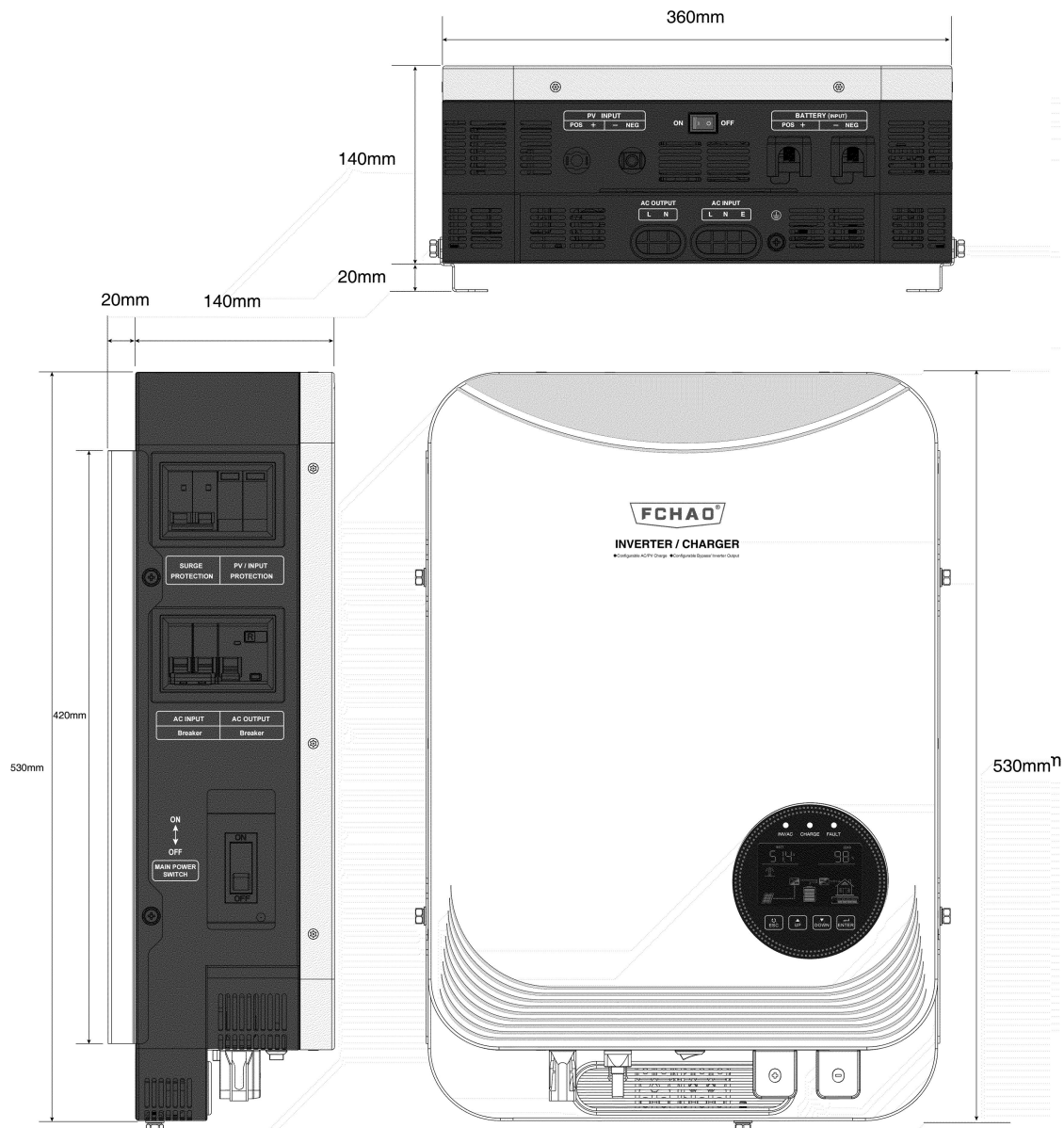
MPPT solar charging mode

| | |
|--|---------------------------------|
| Maximum PV input power | 7.2KW |
| PV Maximum charging current | 90A |
| Nominal photovoltaic voltage | 240Vdc |
| PV array MPPT voltage range | 45~450Vdc/Switch-on voltage 65V |
| Maximum PV array open circuit voltage | 500Vdc |
| Maximum charging current = AC charger + solar charger (total) | 100A |

Table 4 General specifications

| | |
|-----------------------------|--|
| safety certification | CE |
| Operating Temperature Range | -10°C to 50°C |
| Storage temperature | -15°C~ 60°C |
| Storage humidity | 5% to 95% Relative humidity (non-condensing) |
| Dimension (L*W*H) mm | 530mm*360mm*160mm |
| Net weight(kg) | 12.5kg |

■ Product Organisation Chart



Warning:

This product belongs to off-grid inverter, not grid-connected or parallel inverter please be familiar with!

Statement:

We reserve the right to change products and update products without prior notice!