

Shenzhen Fangchao Technology Co.
Zhongshan Fangchao New Energy Co.

产品技术规格书

Product specifications

型号： **0918KHP-4.2KW-HL**
built-in combiner box

版本： **V1.0**

编制： **李涛**

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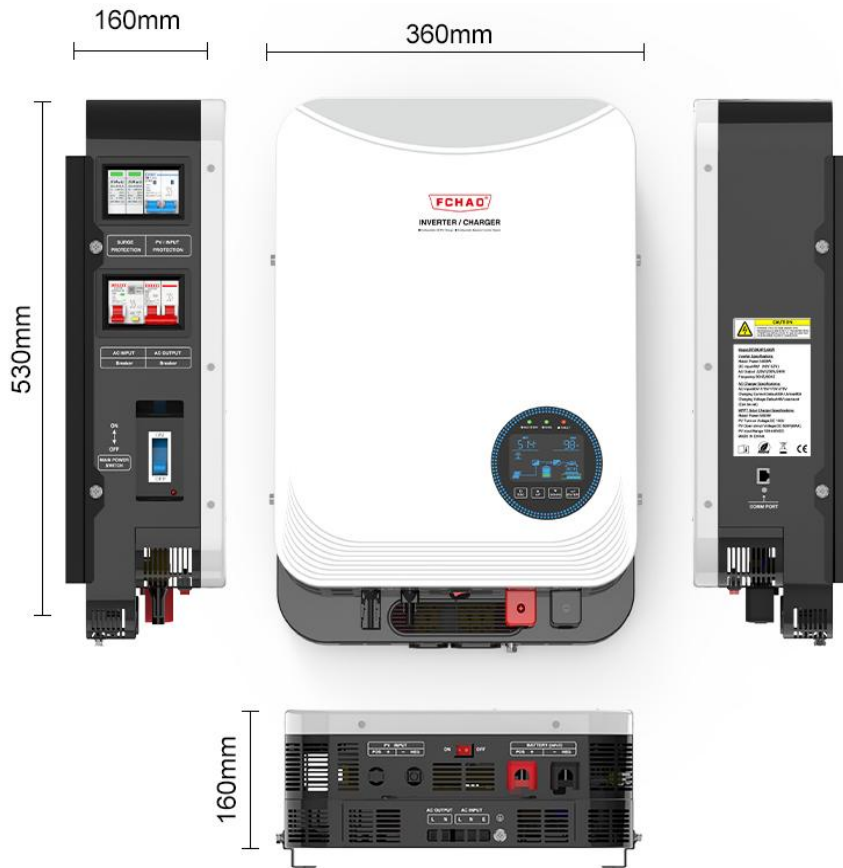
客户确认签章

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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

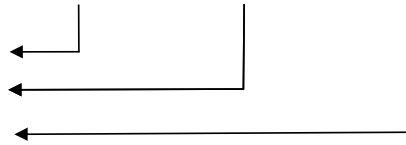
- Pure sine wave output
- Configurable DC input voltage range
- Configurable battery charging voltage
- Configurable battery float voltage
- Configurable battery charging current
- Configurable battery hybrid charging
- Configurable AC/Solar Charger Priorities
- Configurable AC output voltage
- Configurable 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 - 4.2KW -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	0918KHP4.2KW-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	断路器
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 →

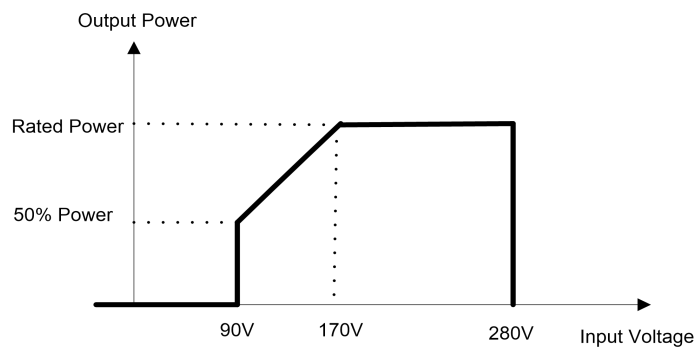


Table 2 Inverter mode specification table

Inverter Specifications	0918KHP4.2KW-HL
Rated output power	4.2KW
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	24Vdc-33Vdc
DC Cold Start POWER On Voltage	22.0Vdc
Low Pressure Alert	@ 负载 ≥ 50% 21.0Vdc @ 负载 < 50% 22.0Vdc
Low Voltage Recovery	22.0Vdc
Undervoltage protection/shutdown	@ 负载 ≥ 50% 20.0Vdc @ 负载 < 50% 21.0Vdc
Undervoltage recovery/power on	Reset POWER
Battery Overvoltage Recovery	32.0Vdc
Battery overvoltage protection	33.0Vdc
No-load power consumption	≈0.7A

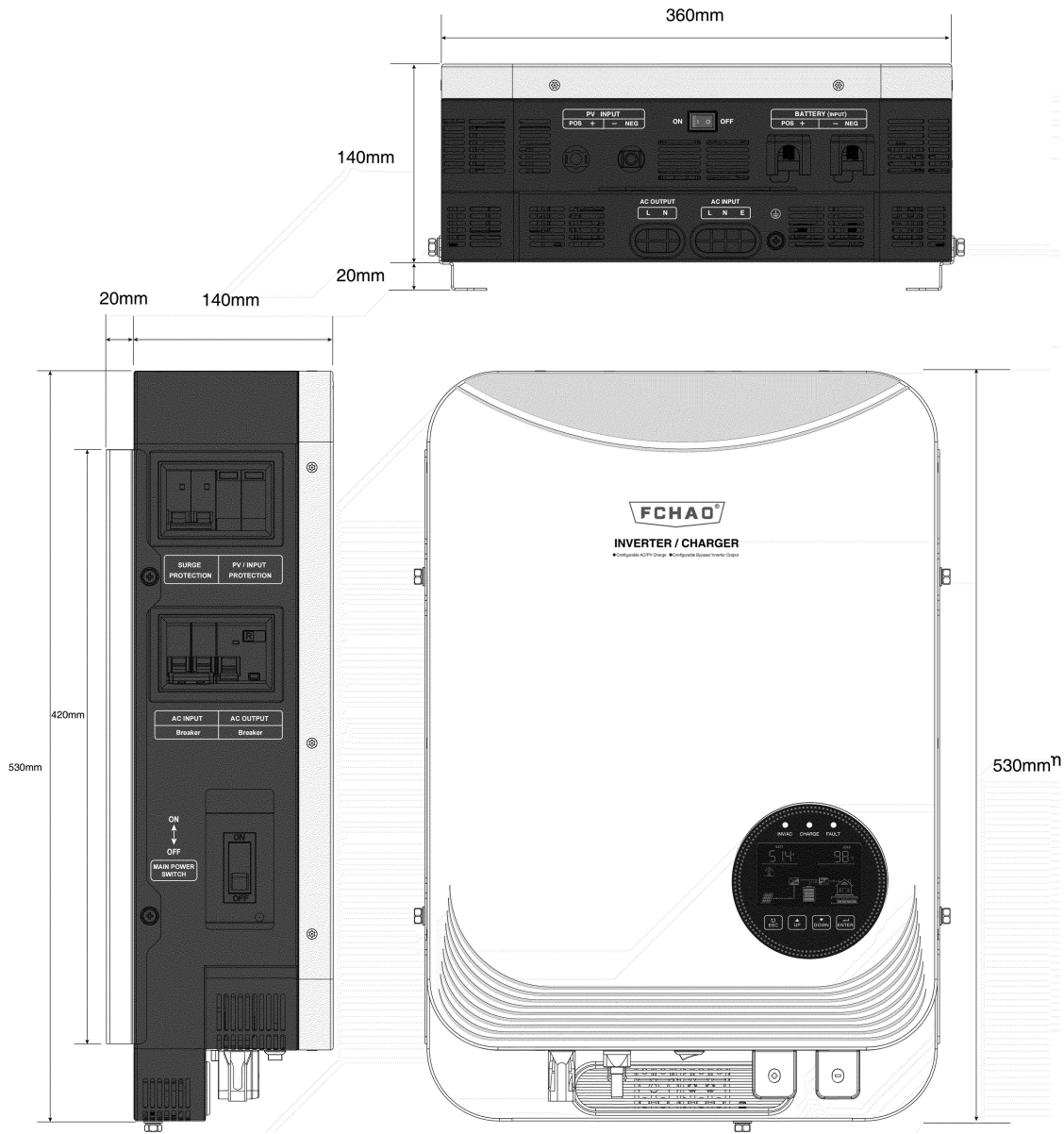
Table 3: Charging mode specification table

Utility grid charging mode	
Inverter Model	0918KHP4.2KW-HL
charging mode	3-段式
Maximum charging current (AC input)	Default 30A / Programmable MAX 80A
Maximum charging voltage (C.V)	28.2Vdc (Default/Settable)
Floating Charge Voltage	27.0Vdc (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!