

Bi-directional Inverter

Kinergier Mobile

-12vdc/24vdc

2KW - 3KW

230VAC / 110VAC

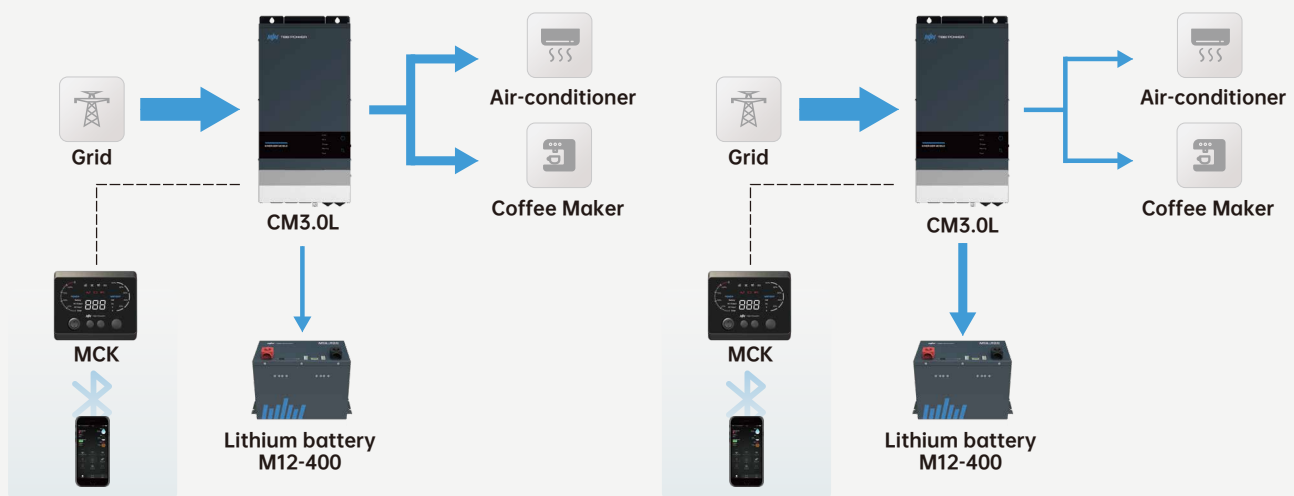


Designed for mission critical application, Kinergier Mobile delivers high reliability, performance and industry leading efficiency. Its distinguishing surge capability makes it capable to power most demanding appliances, such as air conditioner, compressor, vacuum cleaner and various power tools.

Kinergier Mobile is the new generation bi-directional inverter that can be used for generator hybrid system. With innovative function of power assist and power control, it can be used to work with generator or a limited AC source. Kinergier Mobile can automatically adjust its charging current avoiding generator or grid to be overloaded. In case of high power requirement appeared, it can work as the supplement source to generator or grid. As the result, it could dramatically improve the fuel efficiency and decrease the size of generator as well.

With an elegant design monitor MCK, the user is allowed to control the unit and monitor load or battery information remotely. With built-in bluetooth connectivity, the user is also allowed to do configuration by mobile APP.

- Pure sine wave output with high efficiency up to 93%.
- Outstanding overload capability for all kinds of inductive load.
- Extremely low status consumption power.
- Power control and power assist function to compose the generator hybrid system.
- Powerful charger for a quick charge.
- TBB premium II battery charging algorithm suitable for various battery chemicals including LPE.
- UPS class transfer speed, 0ms.
- Automatic ON when shore power is connected.
- Supports IGN control through an external module (optional)
- Built-in ground relay
- Silent design with thermal control fan make it suitable for free camper.
- Fully programmable.

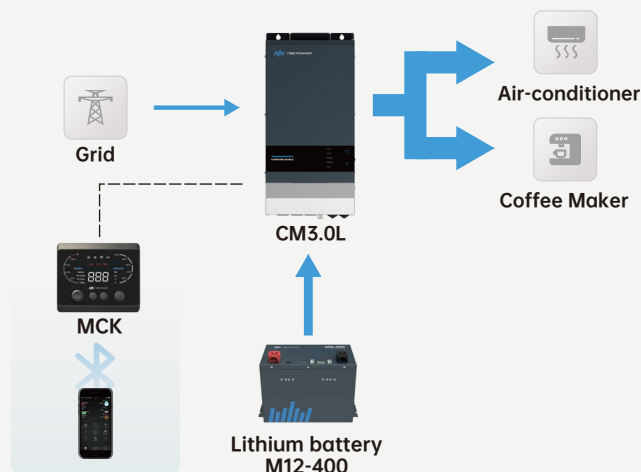


Power Control

If the shore power is limited, Kinergier Mobile will automatically adjust its charging current to prevent the circuit breaker from tripping.

Power Assist

Upon load power exceeding limit of AC supply at campsite, Kinergie Mobile could discharge the battery supplying the loads in parallel with shore power. You can still enjoy coffee and cold air in your motorhome even though the AC supply is limited.



Model No.	CM2.0L / CM2.0M	CM3.0L / CM3.0M
Power Assist	Yes	
AC input voltage range (VAC)	175~265	
AC input Frequency range (Hz)	45~65	
AC input Current (transfer switch) (A)	32	

Inverter

Nominal battery voltage (V)	12 / 24	12 / 24
Input voltage range (V)	10.5 ~ 17 / 21.0 ~ 34	10.5 ~ 17 / 21.0 ~ 34
AC output voltage (VAC)	220 / 230 / 240Vac $\pm$ 2%	
AC output Frequency (Hz)	50 / 60Hz $\pm$ 0.1%	
Harmonic distortion	< 2%	
Load Power factor	1.0	
Cont. output power at 25°C (W)	2000 / 1600	3000 / 2500
Peak power (30min) at 25°C (W)	2200 / 2000	3200 / 3000
Cont. output power at 40°C (W)	1800 / 1500	2700 / 2200
Maximum efficiency	93% / 94%	93% / 94%
Zero load power (W)	12W / 11W	16W / 14W

Charger

Charge algorithm	TBB premium II multi stage	
Max AC charge current (A)	120 / 50	180 / 80
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded / Traction / TBB SUPER-L	

General Data

Transfer time	0ms(<15ms is Weak AC Source Mode)	
Remote on - off	Yes	
Programmable relay	2X	
Protection	a) Output short circuit; b) Overload; c) Battery voltage high / low; d) Temperature high; e) Input voltage out of range / ripple high; f) Fan block;	
General purpose com. Port	RS485	
Operating temperature range	- 20°C ~ 65°C	
Relative humidity in operation	95% without condensation	

Mechanical Data

Dimension (mm) (max)	510 x 245 x 135 / 513 x 272 x 144	510 x 245 x 135 / 513 x 272 x 144
Net weight (KGs)	17 / 16	21 / 19
Cooling	Forced fan	
Protection category	IP20	

Standard

Safety	EN-IEC 62477-1	
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12, ECE R10.05	

* 110VAC model with UL listed is available, please consult with TBB Power.