



# INVERTER PACK M12

THE ULTIMATE 12V AUXILIARY POWER SYSTEM

## Introduction

The Inverter Pack is designed to replace outdated auxiliary power systems that still rely on using heavy AGM batteries or a small generator to carry out their daily workload.

### Powerful & comfortable

Instead of using a noisy generator a CM3.0L inverter-charger will provide enough power to run a 2.5Hp air compressor, a microwave, or even a fully electric coffee machine with no trouble at all.

### Multiple energy sources

The M12 Pack can be recharged by both the vehicle alternator and a large PV array simultaneously, with green energy priority. The DC-DC charger is smart alternator (Euro 6 engine) compatible and supports up to 1.5KWH of recharging for each hour of driving.

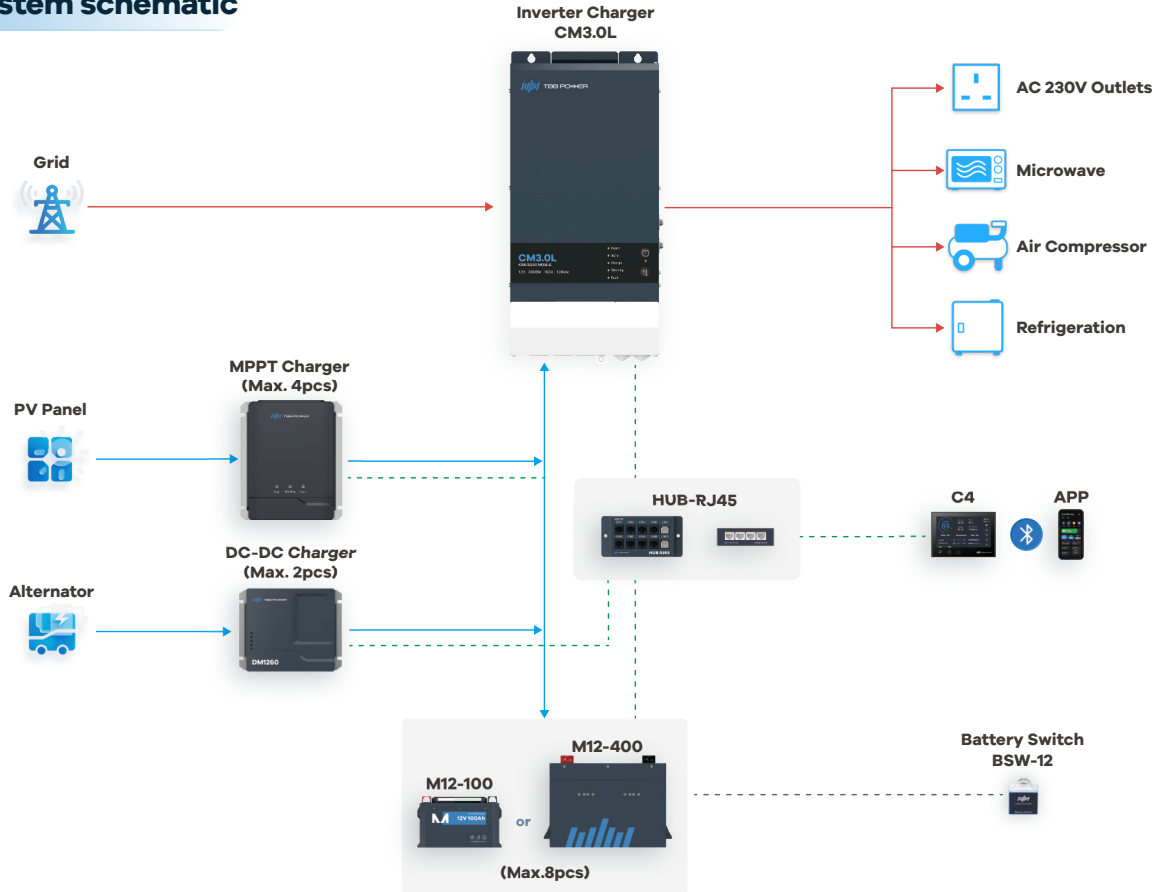
### Sufficient power assured anywhere

Remarkable power-assist functionality allows the inverter-charger to parallel AC Input sources with the battery bank to power heavy AC appliances rated larger than the Inverter.

## System Feature Highlights

- Easy solution for replacing small generators
- High performance inverter is designed to power air-compressor, power tools, vacuum cleaners, microwaves, water heaters and many more.
- Power Assist function allows the inverter to parallel power from grid with lithium battery to power heavy AC appliances even with 5A shore power supply
- High performance lithium battery with max discharge current is up to 300A (M12-400) / 150A (M12-100)
- M12 Lithium modules support parallel connection up to 8pcs, for a max 10KWh with the M12-100 or a colossal 39KWh with the M12-400 modules.
- The C4 system monitor is a 4.3" touch screen display that guarantees easy system operation and quick access to critical information at a glance.
- Bluetooth companion app for mobile devices.

# System schematic



## Inverter charger combination Kinergier Mobile CM2.0L/CM3.0L

- Rated power 2KW/3KW
- Remarkable power assist function is capable to parallel power from grid and battery together to power heavy AC equipment (For example an air-compressor, industrial fridge, microwave and power tools, all running simultaneously)
- Outstanding overload capability for all kinds of inductive loads, air conditioner, vacuum cleaner, water pumps etc.
- High efficiency up to 93%
- Extreme low zero-load power at 16W
- Powerful charger with current up to 120A/18
- UPS class transfer time at 0ms
- Automatic start when shore power is connected for quick recharging of the system whenever AC is detected

Weight: **17 / 21kgs**

Dimension: **510 x 245 x 135mm**



## MPPT charge controller SP100-30/SP100-50 SF100-30/SF100-50

- Wide MPPT voltage range up to 90Vdc
- Self-cooling design (SP models) or fan-cooling design (SF models)
- High conversion efficiency, the Max. efficiency  $\geq 97.2\%$   
High MPPT efficiency, the Max. efficiency  $\geq 99.9\%$



**SP Model**



**SF Model**

## DC-DC charger NEMO DM1230 / DM1245 / DM1260

- 12V30A / 12V45A / 12V60A to charge auxiliary battery
- Back charging function to charge starter battery with current up to 3A
- Non-isolation design with max efficiency 96%
- Euro-6 engine (Smart alternator) compatible
- Lithium battery compatible
- Built-in automatic temperature compensation
- With Phoenix type connector for Plug and Play
- Built-in fuse protection
- Natural cooling with fanless design



# 04

## HUB-RJ45

10 standard RJ45 communication ports



# 05

## System monitor C4

A stylish monitor, offers the approach for user to access critical information at a glance.

- 4.3" LCD with resolution 480 x 270px
- With Bluetooth connectivity to support mobile APP
- Display battery data, inverter data, booster charger data and solar
- charge controller data in real-time
- System and product parameter setting is available at mobile APP



## High performance lithium battery M12-400/ M12-200

- Rated capacity 12.8V 400AH/ 200AH
- Long cycle life, over 3000 cycles at 100% DoD @25°C
- Supports max discharge current 300A
- Supports parallel connection up to 8pcs
- Built-in BMS with automatic balancing and complete protection
- Built-in high precision( $\pm 0.1A$ ) shunt for SOC calculation
- Built-in heater element to support battery be charged at temperature  $-20^{\circ}C$
- Special designed BMS to reduce idle power by 90% ( $<0.1mA$ ) upon battery turns off
- Predebugged BMS software compatible with TBB power system to assure designed lifespan of lithium battery
- Supports CAN and RS485 communication
- Supports remote battery switch
- Weight: 42.5kgs / 25.2kgs, Size: 462 x 237 x 320.5mm / 380 x 225 x 325mm



## Remote battery switch BSW-12

- Master switch for isolating M12-400/M12-200 battery modules
  - Connected with battery by communication cable
  - Could be installed at any location with easy access





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