

TBB Power Co., Ltd

sales@tbbpower.com
www.tbbpower.com
#15, North Shishan Road, Dongfu, Xiamen, China



PRO ENERGY PACK

S3 S5 T9 T15

Alternative solution replacing Generator

Green power, Zero emission, No noise

Suitable for all kinds of tools and equipments



Introduction

Pro Energy Pack is designed for professional vehicle builder aiming to power all kinds of appliances or power tools, as an alternative power solution replacing generator or PTO generator. With high quality lithium battery and high-performance inverter, the Pro Energy Pack provides power without noise and emission. Your vehicle can work at neighborhood, public garden & events and even underground garage. Apart from the green power offered, Pro Energy Pack's modular concept helps in saving precious installation spaces.



Features

Powerful Inverter

Kinergier Apollo is an industrial grade inverter designed to power all kinds of demanding loads, such as air compressor, welders, pump, air conditioner, electric tools etc. Its outstanding performance has proven to be more powerful compared with generators. Both single phase and three phase solutions are available.

Energy guaranteed with convenience

Innovative and powerful Sword DC-DC charger charges the lithium batteries while driving and they can be fully charged on the way to the working site or back home, without the trouble to find grid connection to charge the battery.

48V system architecture

Pro Energy Pack adopts 48V system architecture with 75% reduction in current featuring higher reliability and higher system efficiency. The M48 series lithium battery is especially designed for the Pro Energy Pack, featuring high current discharging and built-in low temperature management.

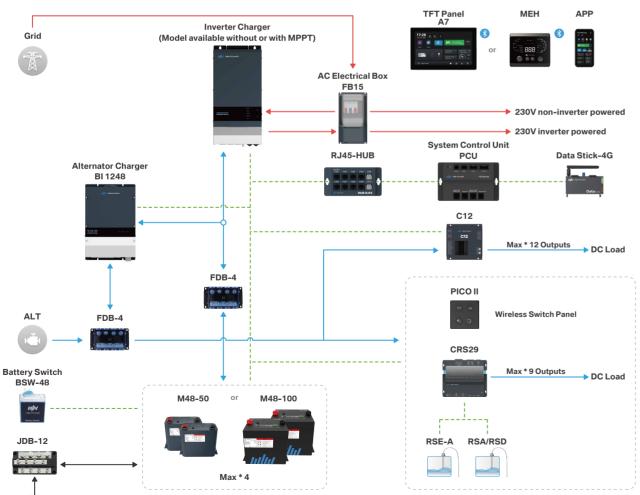
System Optimization

The Pro Energy Pack is designed with the concept of system optimization to deliver the best performance, efficiency and hassle-free operation. The PCU is designed as the brain for optimized operation of whole system.

Daily performance seen

A7-PEP, a stylish system monitor, offers the feature for the user to access critical data at a glance and to control the load at the touch of a finger. Various charts are generated for the user to have a comprehensive understanding for the daily performance of your Pro Energy Pack. APP is available either via Bluetooth or 4G connectivity.



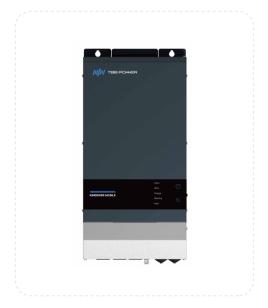


Modules in systems



Bi-directional inverter Kinergier Mobile CM3.0S/CM5.0S

- Rated Power 3KW/5KW
- Pure sine wave output with high efficiency up to 96%
- Outstanding overload capability for all kinds of inductive loads:
 air conditioner, coffee maker, microwave, vacuum cleaner etc.
- Extremely low status consumption power, 14w for 3KW inverter and 18w for 5KW inverter
- Parallel and three phase capability, up to 6 units can operate in parallel
- Built in powerful charger ensures full charging via shore power in 1-2 hours (dependent on number of lithium batteries in system)
- Remarkable power control and power assist function
- Harmonic distortion<2%
- Fully programmable TBB Link
- 230VAC model and 110VAC model are available
- Model with MPPT built in is available (CG3.0S/CG5.0S)



Sword series alternator charger BI1248

- Powerful in-vehicle charging with output of 1.3kw
- Bi-directional design 12Vdc loads up to 100A can be powered from the 48Vdc lithium battery modules when engine is off
- Compatible with Euro 6 engine
- Non-isolation design with max efficiency 94%
- Multiple units can work in parallel







Detect consoits 40V 50AU / 40V 100AU

- Rated capacity 48V 50AH / 48V 100AH
- Long cycle life, over 2500 cycles at 80% DOD at 25°C
- Maintenance free with low self-discharge rate
- Supports high discharge current (max 1C)
- Built-in BMS with automatic balancing and protection against over-charging, over-discharging, and over-temperature

M series lithium battery M48-50/M48-100

- Supports parallel connection up to 12pcs
- Environmental friendly: no toxic and no acid, can be installed in any direction
- Supports CAN communication



Remote battery switch

- A switch to turn M48-50/M48-100 ON/OFF remotely
 - Connected with battery by communication cable
 - Could be installed at any location with easy access

System monitor A7-PEP

A system monitor, offers the approach for user to access critical information at a glance and to control the load at the touch of a finger.

- 7" TFT with resolution 1024x600
- Android based
- System monitor with active data and history record
- 1GB DDR3 and 8GB EMMC
- Built in Bluetooth to support mobile app
- Spring fixture for easy installation
- Multiple communication port: USB, RS485, CAN, TF card







12Vdc load management module C12

- Rated current 80A
- 6 fuse protected output, 30A each
- 6 fuse protected outputs, 15A each
- Output will be cut off upon battery reach low voltage cut-off



Data logging stick

Available with 4G version, wireless data logger is on external communication device which can connect Pro Energy Pack to cloud. It offers a convenient way to monitor the system performance remotely.



Remote monitoring APP

- To provide energy data of your power system
- With "Find My Car" function to locate your vehicle remotely via GPS
- Supports 4G connectivity





Digital load module CRS29

- Rated current 60A
- DC output for smart campervan
 - 2 chip set controlled outputs for smart lighting control, 9A each
 - 3 relay controlled outputs, 15A each
 - 4 fuse protected only outputs
 - 4 dry contact outputs
 - 4 dry contact inputs
- Water tank level measurement, supports conductive and capacitive type water tank sensor both. You can easily read the water tank level of your food truck
- Built-in RF compatible with wireless switch panel
- RS485, LIN and CAN compatible



Wireless switch panel PICO II

- RF wireless technology, great saving on cable harness
- The button name is printed
- Black and white color is available
- Built in cell battery
- Surface mounting, 72x72x11.5mm



System monitor MEH

- LED+LCD with elegant design
- Inverter output data: Power, Voltage, Current
 - Battery SOC, time to go
 - With Bluetooth connectivity to support mobile APP
- Optional simple system monitor to replace A7





AC Electrical box FB15

- With 2pcs RCCB 30mA, 16A. One for shore power input, one for inverter output
- With 1pc CB 16A for AC equipment not powered by
- Input/output designed as WAGO terminal for quick installation

