

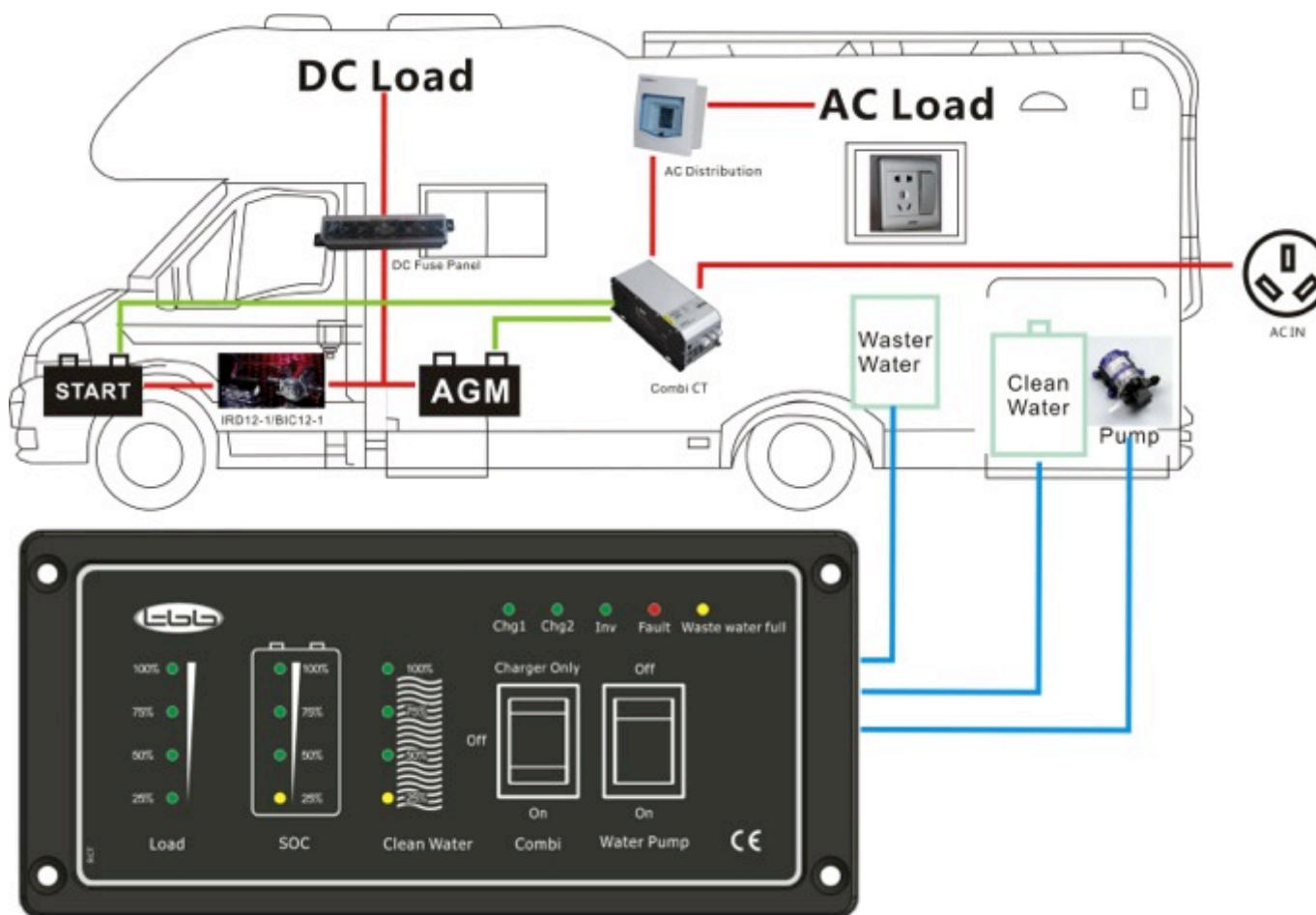
# AAP

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## *Solution for Caravan*



RCT Panel

Aug, 2013

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## *Solution for Caravan*

Package will be composed by following product/part:

- ☐ CT series combi
- ☐ IRD: intelligent charging relay
- ☐ BLVP: battery low voltage protection device
- ☐ RCT Kit
  - ☐ RCT panel
  - ☐ Clean water tank level sensor
  - ☐ Waste water tank sensor
  - ☐ Wires
- ☐ Deep Cycle AGM battery

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## ***Solution for Caravan***

### ***System features:***

1. With twin batteries design, load on board can be powered from service battery.
2. CT combination can offer battery charging, inverter and transfer in one unit.
3. Can charge two batteries meantime
4. Strong inverter suitable for heavy appliance, such as coffee maker, microwave etc
5. With IRD, service battery can be charged from on board alternator to effectively use the energy and reduce the capacity of service battery.
6. BLVP can protect the service battery to be over-discharged by DC load
7. AGM deep cycle batteries suitable for cycling application.



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## ***Solution for Caravan***

### **CT series Inverter Charger Combination**

*Combi CT is an inverter/chargers combination was specially designed for mobile application providing True Sine-wave Inverter, 2xprofessional Battery Chargers and Transfer Switch in one unit. It can be connected to either grid or generator for mobile application.*

*Optimized for high ambient temperature.*





## *Solution for Caravan*

### *Features*

- ☐ Distortion free sine-wave AC power for household appliance and sensitive electronics without worry, such as TV, stereo, laptop.
- ☐ Outstanding peak power in together with super fast protection make it suitable for various types of household appliances, such as coffee maker, microwave, fridges or hair dryer etc.
- ☐ High efficiency (90%-92%) get most out of your reserved energy
- ☐ Low status consumption power
- ☐ Adjustable low voltage disconnect level makes it suitable for various applications to achieve the designed battery cycle life.





## *Solution for Caravan*

- Built in two chargers
  - Powerful service battery charger with multi stage charging algorithm with variable absorption charging timer designed for Lead Acid battery could guarantee your battery with the quick and right maintenance.
  - Slave Charger : 3-5A float charging for starter battery charging
- Service battery charger power adjustable makes it suitable for charging different battery capacity
- Temperature compensated charging ( $-4\text{mV/Cell/}^{\circ}\text{C}$ ) could prolong your battery life time, especially at tropical regions.
- Multiple battery chemicals for service battery including AGM, GEL, Semi traction, Traction





## *Solution for Caravan*

- ☐ **Automatic Transfer** with 10-15ms guarantee the power without interruption.
- ☐ **Built in Ground Relay**
  - Could assure the operation of RCCB during inverter mode.
  - Could assure the safety of mobile application
- ☐ **Charger only function**
- ☐ **Auxiliary contact** is available for purpose of starting the generator upon battery voltage run low
- ☐ **Generator Mode** make it suitable to working with various kinds of generator



## *Solution for Caravan*

Available models:

12VDC    600W 25A  
            1000W 40A  
            1500W 60A  
            2000W 80A  
            2500W 90A

24VDC    2000W 40A  
            3000W 60A  
            4000W 80A



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## *Solution for Caravan*

### **IRD series Intelligent Charging Relay**

It offers a conveniently available source to charge the service battery to compose the hybrid system, with which you can either utilize the spare energy or reduce the service battery size on board.

Different from a simple diode splitter, it offer management to better protect the starting battery and utilize the spare energy upon ready for use.



## *Solution for Caravan*

### *Features:*

- **No voltage loss:** Designed with a microprocessor controlled contactor, IRD is an ideal replacement for Diode type battery isolator.
- **Prioritizing the starter battery:**
  - Upon starter battery reach 13.6V/27.2VDC with threshold time delay, the relay will close to charge service from alternator.
  - Upon ignition went off, it will disconnect the charging to service battery.
  - While engine running, it will disconnect the charging upon battery voltage drop under 12.6VDC/25.2VDC for 2secs.



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## *Solution for Caravan*

### **Features:**

- **Emergency Start:** If requested, additional switch can be added to achieve “Assist Start” function. The contactor will engage momentarily using service battery to assist the engine start.
- **IP68** suitable for vehicle installation requirement.
- **High reliability contactor with service life 100000 times**

### *Available:*

12VDC 100A

24VDC 100A



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## *Solution for Caravan*

### **BLVP series Battery low voltage protector**

BLVP was the battery low protection device, which was designed for DC loads connected on service battery such as LED lighting. It offer an automatic protection to avoid deep discharge of service battery.





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## *Solution for Caravan*

### **Features:**

- **No voltage loss:**
- **Various models available**
  - Type A : disconnect voltage 11Vdc / engage voltage 12.6Vdc
  - Type B : disconnect voltage 11.7Vdc / engage voltage 12.6Vdc
  - Type C : disconnect voltage 12.5Vdc / engage voltage 13.5Vdc
- **Support manual disconnection**
- **Available with both 12Vdc and 24Vdc models:** 60A and 120A



## *Solution for Caravan*

### RCT series Caravan Kit

*RCT kit composed by following parts*

- ❑ RCT panel
- ❑ Clean water meter: 25%-50%-75%-100%
- ❑ Waste water meter
- ❑ Wires



## *Solution for Caravan*

**RCT panel** posses following functions

- ☐ Inverter Power % display
- ☐ Battery SOC display
- ☐ Clean water tank level display
- ☐ System status
- ☐ Combi Main switch
- ☐ Clean water pump switch



## *Solution for Caravan*

### RCT Dimension:

