

V. Alternative Power

ALT POWER

Alternative Power Category Index



Alternative Power Solutions

- E. Alternative Power
 - e.1 Solar Panels
 - e.2 Solar Controllers
 - e.4 Batteries
 - e.5 Battery Monitors and Equipment
 - e.6 Chargers

Remarks: Page 1 of 6

v.1 Solar Panels

PV100

100W 12V Crystalline 1205 x 540mm

Brand: RV Tech



- Mono 5 year mechanical warranty
- 25 year linear warranty to 70% power output
- Max.Power(Pmax)100Wp
- Maximum Operating Current(I_m) 4.62A
- Maximum Operating Voltage 21.65V
- Open Circuit Voltage 26.79V
- Short Circuit Current 5.05A
- Series Fuse 15A
- Withstand high wind loads and snow loads (5400Pa)
- Anti-reflective highly transparent, low iron tempered glass
- Transmission rate 3.18%
- 850(H)*670(W)*30(D)

Freight charges apply to Trade Accounts.

Size: 850x670x30

Remarks: 100W

PV175

175W 12V Crystalline Panel

Brand: RV Tech





- Mono 5 year mechanical warranty
- 25 year linear warranty to 70% power output
- Max.Power(Pmax)175Wp
- Maximum Operating Current(I_m) 8.97A
- Maximum Operating Voltage 19.5V
- Open Circuit Voltage 23.51V
- Short Circuit Current 9.15A
- Series Fuse 15A
- Withstand high wind loads and snow loads (5400Pa)
- Anti-reflective highly transparent, low iron tempered glass
- Transmission rate 3.18%
- 1485(H)*675(W)*30(D)
- Super Slime Line Panel

Freight charges apply to Trade Accounts.


Size: 675 x 1485 x 30

Remarks: 175W

PV290	290W 24V Mono Crystalline Panel	Brand: RV Tech
	<ul style="list-style-type: none"> • Mono 5 year mechanical warranty • 25 year linear warranty to 70% power output • Max.Power(Pmax)290Wp • Maximum Operating Current(I_m) 8.91A • Maximum Operating Voltage 32.55V • Open Circuit Voltage 39.50V • Short Circuit Current 9.20A • Series Fuse 15A • Withstand high wind loads and snow loads (5400Pa) • Anti-reflective highly transparent, low iron tempered glass • Transmission rate 3.18% • 1645(H)*995(W)*40(D) <p>Freight charges apply to Trade Accounts.</p> <p>Size: 995x1645x40mm Remarks: 290W</p>	

PV345	345W Mono Solar Panel 36V	Brand: RV Tech
	<ul style="list-style-type: none"> • Mono 5 year mechanical warranty • 25 year linear warranty to 70% power output • Max.Power(Pmax)345Wp • Maximum Operating Current(I_m) 8.88A • Maximum Operating Voltage 38.94V • Open Circuit Voltage 46.80V • Short Circuit Current 9.34A • Series Fuse 15A • Withstand high wind loads and snow loads (5400Pa) • Anti-reflective highly transparent, low iron tempered glass • Transmission rate 3.18% • 1960(H)*990(W)*40(D) <p>Freight charges apply to Trade Accounts.</p> <p>Size: 990x1960x40mm Remarks: 345W</p>	

v.2 Solar Controlers

DUMPPT30	DuoRacer Series MPPT Dual Battery Solar Charge Controller (30A)
	<p>Maximum Power Point Tracking technology with ultra-fast tracking speed and tracking efficiency at no less than 99.5% guaranteed</p> <p>Advanced MPPT control algorithm to minimize the MPPllost rate and lost time</p> <p>A wider range of the MPP operation voltage to improve the PV module utilization</p> <p>Auto control function of charging power & charging current limitation(BATT1)</p> <p>High quality and low failure rate components of ST, TI and Infineon to ensure the product life</p> <p>Digital circuit control of adaptive three-stage charging mode to enhance BATT1 life</p> <p>BATT1 type can be set via LED/LCD</p> <p>The DuoRacer switches into the low-power mode when there is no manual operation for a long time and charging conditions are not satisfied (PV<5V)</p> <p>100% charging and discharging in working environment temperature range</p> <p>LED and LCD display units selectable</p> <p>AES control signal for car refrigerator to avoid energy waste</p> <p>Standard Modbus protocol, and RS485 (5V/200mA) communication port for the customer to expand the application area</p> <p>DDB = Basic Display LED, DDS = Standard Display LCD</p> <p>MT11 Remote Monitor (Accessory) available for remote monitoring and parameter setting</p> <p>Size: 180x156mm</p>

MPPT30A

MPPT 30amp 12/24 Volt Solar Controller - Max 100VDC



SPECIFICATIONS

Battery voltage: 12V/24V (auto detect)
 Maximum PV Open-circuit Voltage (Voc): 100V Max
 Rated PV Size: 390W/780W
 Max PV Size: 2040W
 Maximum PV Current: 30A
 Maximum charging Current: 30A
 Maximum Load Current: 30A
 Working temperature: -20 ~ +45C
 Weight: 1.2 kg
 Dimensions: 228 mm × 164 mm × 55 mm
 2 year warranty

MT11

Remote Meter for DuoRacer



FEATURES

Automatically identify and display the type, model and relevant parameter data of controllers.
 Real-time display the operational data and working status of the connected devices indigital, graphics and textural forms by a large-screen multifunction LCD
 Three touch buttons are easy and quick to operate
 No need for external power supply. Charge controller supply the power for MT11
 It can browse the controller's parameters, set the battery type and temperature unit, and clean the generated energy
 Real-time display of failure information of the connected devices.
 Longer communication distance based on RS485

Size: 114x114mm


MT50


Remote for Tracer MPPT Solar Controllers





Large-screen multifunction LCD displays all the operational data and system working status in digital, graphic and textual forms
 ·With six navigation function keys, the operation is direct, convenient and rapid
 ·Real-time energy statistics recording
 ·Both data and data flowing on the same lead ,no need for external power
 ·Real-time monitoring and acoustic alarm of failure information of the controller
 More powerful function Via MT50
 ·Diversified load control modes : manual, light ON/OFF, Light ON+ Timer, Time Control
 ·Battery type selection: Gel, sealed, flooded and USER type
 ·Real-time monitor
 ·Programmable parameters
 ·Energy display function
 Connection cable length: 2m
 Dimensions: 114mm x 114mm
 24 month warranty




v.4 Batteries

LI-12-100BMS	12V 100AH Lithium Iron Phosphate Battery With BMS-BT	Brand: RV Tech
	<p>Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.</p> <p>Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.</p> <p>Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.</p> <p>Nominal Voltage 12.8V Nominal Capacity 100 Ah Energy 1280Wh Cycle Life >5000 @ 0.5C 50% DOD Efficiency 97-99% Charge Voltage 14.6 +/- 0.2V Charger Current 25A Max Charge 50A Continuous Current 50A Max. Pulse Current 100A <1s Discharge Cut off 10V Weight 11.6 Kg</p> <p>Size: 342*173*212mm Remarks: Bluetooth & BMS</p>	


LI-12-120BMS	12V 120AH Lithium Iron Phosphate Battery With BMS	Brand: RV Tech
	<p>Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.</p> <p>Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.</p> <p>Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.</p> <p>Nominal Voltage 12.8V Nominal Capacity 120 Ah Energy 1536Wh Cycle Life >5000 @ 0.5C 50% DOD Efficiency 97-99% Charge Voltage 14.6 +/- 0.2V Charger Current 25A Max Charge 50A Continuous Current 50A Max. Pulse Current 100A <1s Discharge Cut off 10V Weight 13.6Kg</p> <p>Remarks: BMS</p>	

LI-12-150BMS	12V 150AH Lithium Iron Phosphate Battery With BMS-BT
 <p>Sample image</p>	<p>Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.</p> <p>Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.</p> <p>Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.</p> <p>Nominal Voltage 12.8V Nominal Capacity 150 Ah Energy 1920Wh Cycle Life >5000 @ 0.5C 50% DOD Efficiency 97-99% Charge Voltage 14.6 +/- 0.2V Charger Current 25A Max Charge 50A Continuous Current 50A Max. Pulse Current 100A <1s Discharge Cut off 10V Weight TBA</p>

LI-12-200BMS	12V 200AH Lithium Iron Phosphate Battery With BMS-BT	Brand: RV Tech
	<p>Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.</p> <p>Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.</p> <p>Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.</p> <p>Nominal Voltage 12.8V Nominal Capacity 200 Ah Energy 2560Wh Cycle Life >2000 @ 1.0C 100% DOD Efficiency 97-99% Charge Voltage 14.6 +/- 0.2V Charger Current 50A Max Charge 100A Continuous Current 50A Max. Pulse Current 200A <3s Discharge Cut off 10V Weight 26.5 Kg SOC - LED & BT</p> <p>Size: 522*240*224mm Remarks: BMS system and Bluetooth</p>	

<p>LI-24-100BMS</p> 	<p>24V 100AH Lithium Iron Phosphate Battery With BMS-BT</p> <p>Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.</p> <p>Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.</p> <p>Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.</p> <p>Nominal Voltage 25.6V Nominal Capacity 100 Ah Energy 2560Wh Cycle Life >2000 @ 1.0C 100% DOD Efficiency 97-99% Charge Voltage 29.2 +/- 0.2V Charger Current 50A Max Charge 100A Continuous Current 50A Max. Pulse Current 100A <3s Discharge Cut off 21.6V Weight 26 Kg SOC - Options LED & BT Standard Terminals</p> <p>Size: 522 x 240 x 220mm Remarks: Plastic ABS Case</p>	<p>Brand: RV Tech</p>
<p>LI-48-100-5U</p> 	<p>48V 100 AH 5U rack-mount lithium-ion battery system</p> <p>Specs to be confirmed - Arrived 2022</p> <p>Built in BMS, and BMS data Bus compatible with Victron BMS</p> <p>Size: 442 x 222 (5U) x 400mm Remarks: 47Kg - 5U Rack Mount</p>	<p>Brand: RV Tech</p>
<p>PW-51V-100AH</p> 	<p>51V-100AH - 5000WH Power Wall Lithium Ion Battery</p> <p>Specs to be confirmed New product 2022</p> <p>Built in BMS, and BMS data Bus compatible with Victron BMS</p>	<p>Brand: RV Tech</p>

v.5 Battery Monitor Equipment

<p>SHU050150050</p> 	<p>Smart Shunt 500A/50mV</p> <p>The SmartShunt is an all in one battery monitor, only without a display. Your phone acts as the display. The SmartShunt connects via Bluetooth to the VictronConnect App on your phone (or tablet) and you can conveniently read out all monitored battery parameters, like state of charge, time to go, historical information and much more.</p> <p>Alternatively the SmartShunt can be connected and be read by a GX device. Connection to the SmartShunt is made via a VE.Direct cable.</p> <p>The SmartShunt is a good alternative for a BMV battery monitor, especially for systems where battery monitoring is needed but less wiring and clutter is wanted. The SmartShunt is equipped with Bluetooth, a VE.Direct port and a connection that can be used for: monitoring a second battery, midpoint monitoring or a temperature sensor.</p> <p>Size: 46 x 120 x 54mm Remarks: 500A</p>	<p>Brand: Victron Energy</p>
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