

Section 4

Power Solutions

Solar Panels
Solar Regulators
Generators
Batteries
Inverters
Converters
Solar Vents

Topray Solar Panels



**Available in 130Watt and 160Watt
MONYOCRYSTALLINE SOLAR PANELS**

130Watt

664 x 1179 x 35mm

Maximum Power Voltage 16.8V, Maximum Power Current 7.75A

160Watt

664 x 1480 x 35mm

Maximum Power Voltage 18.1V, Maximum Power Current 8.31A

Topray 130 Watt Solar Panel - 1328

Topray 160 Watt Solar Panel - 1329



5 Watt Solar Trickle Charger



Keep your battery topped up with solar power.
Detachable connection with different adaptors available

12 volt Ideal for boats, caravans, RV's

Dimensions: 350mm x 115mm x 15mm

5 Watt Solar Trickle Charger - 1345



10 Watt Solar Trickle Charger



Keep your battery topped up with solar power. Detachable connection with different adaptors available

12 volt

Dimensions:

440mm x 345mm x 15mm

10 Watt Solar Trickle Charger - 1343



15 Watt Solar Trickle Charger

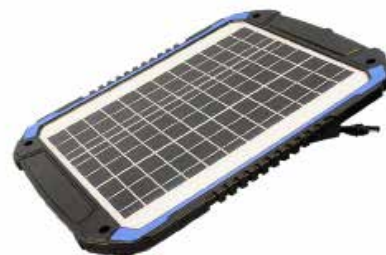
Keep your battery topped up with solar power.

Detachable connection with different adaptors available

12 volt Ideal for boats, caravans, RV's

Dimensions: 440mm

x 345mm x 15mm



15 Watt Solar Trickle Charger - 1342

200 Watt Folding Solar Panel Mat



Charger Specifications:

Solar Charge Controller

System Voltage: 12/24V Auto

Battery Equalisation:

Sealed: 14.4V

GEL: 14.2V

Flood: 14.6V

Float Charge: 13.7V (Default, Adjustable)

Discharge Stop: 10.7V (Default, Adjustable)

Discharge Reconnect: 12.6V (Default, Adjustable)

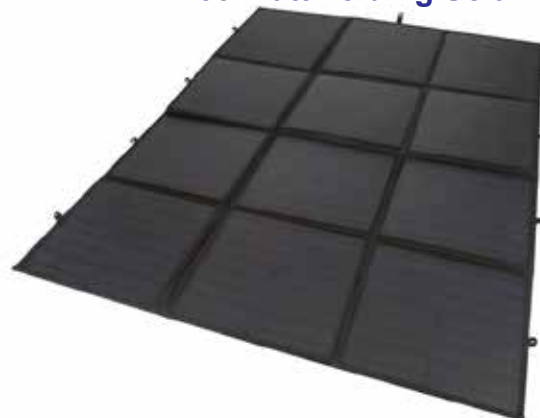
USB Output: 5V, 2A

Self-Consumption: <10mA

Operating Temperature: -35 ~ 60°C

200 Watt Folding Solar Panel Mat - 1349/200

400 Watt Folding Solar Panel Mat



Nominal Voltage: 12V

Maximum Output: 22.6V @ 17.6A (400W)

Charge Controller Specifications:

System Voltage: 12/24V (Panel is designed to charge 12V systems only)

Float Charge: 13.7V (Default, Adjustable)

USB-A QC3.0 port

USB-C PD60W port

Self-Consumption: <10mA

Operating Temperature: -35 ~ 60°C

200 Watt Folding Solar Panel Mat - 1349/200

SOLARKING

Solar Panels



Solarking panels are a high performance monocrystalline panel. 127mm cells used in these panels are sealed in transparent EVA (ethylene-vinyl-acetate) between impact-resistant 3mm tempered glass and a durable TPT (tedlar-polyester-tedlar) backsheet.

40 Watt 12 Volt - 1320
60 Watt 12 Volt - 1322
80 Watt 12 Volt - 1325
120 Watt 12 Volt - 1330
150 Watt 12 Volt - 1334
200 Watt 12 Volt - 1335

120 Watt Monocrystalline Suitcase Solar Panel



Two 60 watt solar panels make up this easy to use suitcase panel. Easy to store, now you can follow the sun to achieve maximum solar energy. With an output of 8 amps it will charge your battery to run most portable fridges .

Maximum Power: 120W
Open Circuit Voltage (Voc) : 21.6V
Short Circuit Current (Isc): 7.32A
Maximum Power Voltage (Vmp): 18V
Maximum Power Current (Imp): 6.66A
Maximum System Voltage :1000VDC
Packing Dimensions: 800x545x70mm
Product Weight: 11.7kgs

120 Watt Suitcase Solar Panel -1315

160 Watt Monocrystalline Suitcase Solar Panel

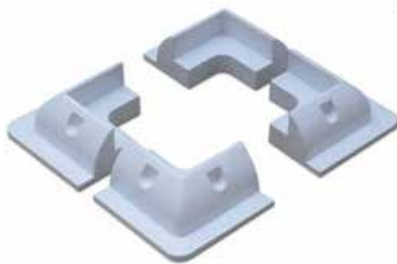


The unit is a premium model with real adjustable elevation legs (not just move the legs in and out like the others to get the correct angle and have the panel fall over) to suit all of Australia. The unit also comes fitted with a premium MPPT solar regulator with LCD display. This unit is one of the best performing on the market

Max power: 160W
Max power voltage: 18V
Max power current: 6.67A
Open-circuit voltage: 21.6V
Short-circuit current: 7.2A
Solar cell: Monocrystalline
Weight: 19kg

80 Watt Suitcase Solar Panel - 1327

Solar Panel Corner Brackets Set of 4



Heavy duty ABS plastic
UV resistant .
4 Pack
Colour: White

Solar Panel Corner Brackets Set of 4 - 1347

Cable Glands



These unique clamps incorporate
a unique sealing mechanism which works
on the camera shutter principle.

Available in three sizes.

Cable Glands 4-8mm - 1403
Cable Glands 6-12mm - 1404
Cable Glands 13-18mm - 1405



Universal Solar Mount Brackets Set of 4



Universal Solar Mount
Brackets Set of 4 - 1408

30AMP Solar Charge Regulator with Twin USB Ports

30 Amp output
12/24 Volt output
Solar work station consist of charge regulator +
I/O system
Handles up to 20A of solar charging
Protects your 12V battery from over charge & over
discharge
Built in USB output and 12V DC outputs
Flat design to allow secured onto back of solar
panel or onto the wall
Large LCD display for easy monitoring

30AMP Solar Charge Regulator - 1427

20 amp Solar Charge Regulator with Twin USB Ports

20 Amp output
12/24 Volt output
Solar work station consist of charge regulator
+ I/O system
(2)Handles up to 20A of solar charging
Protects your 12V battery from over charge &
over discharge
Built in USB output and 12V DC outputs
Flat design to allow secured onto back of solar
panel or onto the wall
Large LCD display for easy monitoring
20A Solar Charge Regulator - 1432

SOLARKING 10 amp Regulator



10 Amp
12/24VDC Auto Select
Load Output (On by default)
Load Output can be turned of by button
LED Status Lights
PWM
2x USB Chargers

10 amp Regulator - 1420

SOLARKING 20 amp Regulator



20 Amp Maximum Current
12/24VDC Auto Select
USB socket for charging
Adjustable Load Timer Output
Charge Status Indicator
Under and Over Voltage Indicators
Load on/off Selectable

20 amp Regulator - 1425

SOLARKING 30 amp Regulator



30 Amp Maximum Current
12/24VDC Auto Select
USB Charging Socket
Charge Status Indicator
Under and Over Voltage Indicators
Load on/off Selectable
LCD Display

30 amp Regulator - 1428



3 Stage Automatic 12/24V 30A Solar Charge Controller with Remote Control

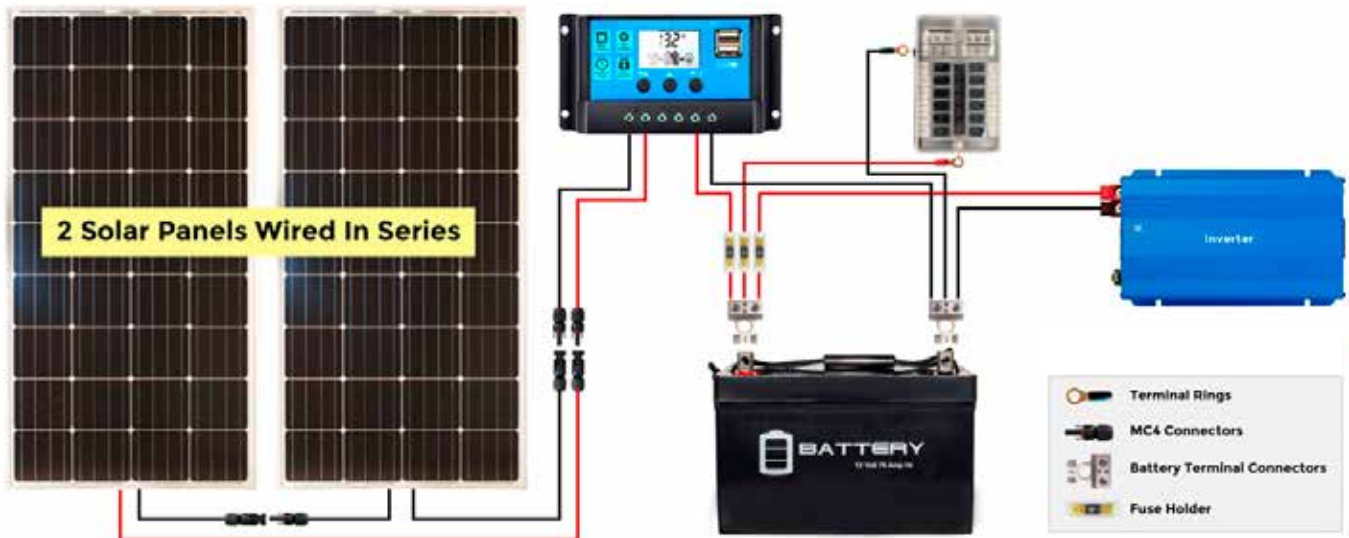


Ideal for multiple solar panel setups and rated for up to 30A, the SC330D delivers a comprehensive 3 stage charge perfect for deep cycle batteries. The supplied remote allows total control for when the unit is mounted in hard to access locations.

INPUT: 12V or 24V solar panel
MAX INPUT: 50V DC, 30A
MAX LOAD: 30ABATTERY: 12V or 24V
CHARGE CONTROL: 3 stage charging

Projecta Solar Controller with remote -1430

Basic Solar Set Up




YAMAHA
QUIET.DURABLE.RELIABLE
EF1000iS


The Yamaha EF1000iS inverter generator is the ultimate in lightweight portable electricity that is quiet, durable and convenient.

The EF1000iS weighs only 12.7kg and is equipped with a new 4-stroke OHV 50cc engine. The Yamaha exclusive double coil system gives better fuel economy, a continuous running time of 12 hours and less noise.

Length 450 mm
Width 240 mm
Height 380 mm

Yamaha 1000iS - 1520

EF2400iS


The EF2400iS is a model that brings the reliable Yamaha inverter technology used on the highly acclaimed EF2800i to the 2kVA class. Not only is it super-quiet (5459dBA @ 7m), it only weighs 32 kilos and produces 2400 watts of maximum power. With Parallel Use the capacity to connect two generators of the same specification and operate them together to provide quality electricity with a max. Length 527 mm Width 419 mm Height 459 mm Wet Weight 32 kg with 6.0 litres of fuel

EF2400iS - 1525

EF2000iS


Weighing in at only 20kg, this mighty mouse has enough power to run a microwave oven, a camping fridge, a kettle or a television. It is fitted with a newly designed muffler and air filter. Its small size, ease of use and handling make the EF2000iS a perfect companion away from the campsite as well.

Length 490 mm Width 280 mm Height 445 mm
Net Weight 20 kg with 4.4 litres of fuel.
Noise Level 51.5 dba @ 1/4 load dba @ 7m

Yamaha 2000iS - 1522

EF2800i


With the EF2800i, Yamaha's first inverter type generator, we created one of the quietest generators in its class.

This design is smaller and lighter than a conventional two-pole alternator and large stator — and it makes the EF2800i extremely portable. The EF2800i's inverter system features Pulse Width Modulation (PWM), so wavelength distortion is less than 2.5 percent, making it ideal for equipment that requires stable frequency and voltage.

Length 487 mm Width 395 mm Height 425 mm
Wet Weight 29 kg with 11.0 litres of fuel
Noise Level 60/67 dba @ 7m

Yamaha F2800i - 1530

EF2200iS


The all new EF2200iS strikes the perfect balance between power & portability. It provides an extra 200W compared to the versatile EF2000iS, yet it's lighter and smaller than the workhorse EF2400iS. Powerful enough for appliances, tools and electronic devices without taking too much valuable space. It's the ideal generator for campers, caravanners, adventurers and outdoor enthusiasts. Weight 25 kg
Dimensions - 555 x 300 x 470 mm
DC Output - 12V / 3 Amps
Frequency - 50Hz
Generator Type - Inverter

Yamaha 2200iS - 1523

EF3000iSE


With Yamaha's performance enhancing features; Inverter Technology, Smart Throttle and Noise Block, the Yamaha EF3000iSE is capable of producing clean, high-quality electricity with extremely quiet operation (quietest in the industry). EF3000iSE also features a fresh, new ergonomic design with easy control access, effortless electric starting and builtin wheels so it's remarkably portable - providing convenient power to the locations where you need it most, whether around the home or at a campsite. The EF3000iSE is a generator with leading edge technology. Length 680 mm Width 445 mm Height 555 mm
Wet Weight 67 kg with 13.0 litres of fuel
Noise Level 51dBA (1/4 Load) dba @ 7m

Yamaha 3000iSE - 1535

POWER SOLUTIONS



iGen1200



1,200 Starting Watts / 1,000 Running Watts
Lightweight and Easy to Carry 15 kg with Handle
Ultra-Silent Running from only 51 dB(A)
Up to 15 Hours Run Time with 2.8 Litre Fuel Tank
Digital Inverter Technology – Safe for Electronics
54 cc Westinghouse 4-Stroke OHV Petrol Engine
Compliant with Australian and US Emissions Standards
240 Volt AC, 12 Volt DC and USB Fast Charge Outlets
Plug and Play – Just Add Petrol, No Assembly Required
2-Year Domestic Use Warranty (conditions apply)

iGen1200 - 1658

NEW

iGen2600



2,600 Starting Watts / 2,200 Running Watts
Lightweight and Easy to Carry 22.5 kg with Handle
Ultra-Silent Running from only 52 dB(A)
Up to 19 Hours Run Time with 5 Litre Fuel Tank
Digital Inverter Technology – Safe for Electronics
98 cc Westinghouse 4-Stroke OHV Petrol Engine
Compliant with Australian and US Emissions Standards
Dual 240 Volt AC Outlets and Multi-Parameter Data Center
Plug and Play – Just Add Petrol, No Assembly Required
2-Year Domestic Use Warranty (conditions apply)

iGen2600 - 1659

iGen2200



2,200 Starting Watts / 1,800 Running Watts
Lightweight and Easy to Carry 21 kg with Handle
Ultra-Silent Running from only 51 dB(A)
Up to 19 Hours Run Time with 4.3 Litre Fuel Tank
Digital Inverter Technology – Safe for Electronics
79 cc Westinghouse 4-Stroke OHV Petrol Engine
Compliant with Australian and US Emissions Standards
240 Volt AC and USB Fast Charge Outlets
Plug and Play – Just Add Petrol, No Assembly Required
2-Year Domestic Use Warranty (conditions apply)

iGen2200 - 1660

iGen4500S



4,500 Starting Watts / 3,700 Running Watts
Push-Button Electric Start with Remote Control
Ultra-Silent Running from only 51 dB(A)
Up to 24 Hours Run Time with 13.5 Litre Fuel Tank
Digital Inverter Technology – Safe for Electronics
224 cc Westinghouse 4-Stroke OHV Petrol Engine
Compliant with Australian and US Emissions Standards
240 Volt AC, 12 Volt DC and USB Fast Charge Outlets
Control Panel with Multi-Parameter LED Display
2-Year Domestic Use Warranty (conditions apply)

iGen4500S - 1662

2400i



2,400 Starting Watts / 2,100 Running Watts
Lightweight and Easy to Carry 20 kg with Handle
Ultra-Silent Running from only 51 dB(A)
Up to 24 Hours Run Time with 5 Litre Fuel Tank
Digital Inverter Technology – Safe for Electronics
79 cc Westinghouse 4-Stroke OHV Petrol Engine
Compliant with Australian and US Emissions Standards
240 Volt AC and 12 Volt DC Outlets
Plug and Play – Just Add Petrol, No Assembly Required
2-Year Domestic Use Warranty (conditions apply)

2400i - 1663

SOLARKING

110 AH Deep Cycle Battery



Voltage output: 12 Volt DC
Amp hours: 110 AMP
Dimensions 329 x 171 x 214 mm
Weight 31kgs (approximately)
110AH
Deep cycle
AGM
3 Year Warranty

110 AH Deep Cycle Battery - 1846

SOLARKING

LifePO4

100 AH Lithium Battery



Dimensions 330x173x218mm
Weight 13.8kgs
Chemical Lithium Iron LiFePO4
Operating Temperature Range: -20°C ~ +60°C
Voltage V : 12.8VDC
Amperage : 100AH
Max Charge Current : 80A
Max Charge Voltage : 15.2V
Cycles @ 100% DOD : 2000 Cycles
Low Voltage cut out : 10VDC
Maximum In-series voltage : 30.4V

100 AH Lithium Battery - 1851



C12-75DA



Length: 260mm
Width: 169mm
Height: 21mm
Volts: 12
AH: 75
Weight (kg): 23.50

75amp hour - 1847



SOLARKING

LifePO4

120 AH Lithium Battery



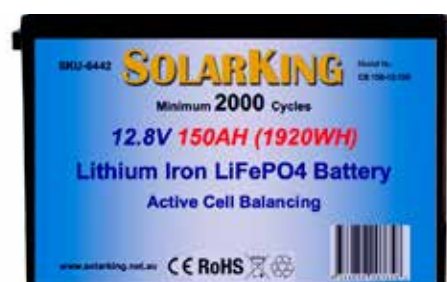
Dimensions: 334x175x219mm
Chemical: Lithium Iron LiFePO4
Cell Type: Prismatic
Product Weight: 15.0kgs
Operating Temperature Range: -20°C ~ +60°C
Voltage: 12.8VDC
Amperage : 120AH
Max Continuous Current : 100A
Max 3 Second Pulse : 150A
Min Charge Current : 2A
Nominal Charge Rate: 30A

120 AH Lithium Battery - 1852

SOLARKING

LifePO4

150 AH Lithium Battery



Dimensions: 365x185x245mm
Chemical: Lithium Iron LiFePO4
Product Weight: 20.7kg
Operating Temperature Range: -20°C ~ +60°C
Voltage: 12.8VDC
Amperage: 150AH
Max Continuous Current: 100A
Max 10 Second Pulse: 150A
Min Charge Current: 2A
Nominal Charge Current: 30A

150 AH Lithium Battery - 1853

Century Batteries

C12-105DA

Length: 307mm
Width: 169mm
Height: 210mm
Volts: 12
AH: 105
Weight (kg): 29.00

105amp hour - 1848



C12-120DA



Length: 328mm
Width: 172mm
Height: 222mm
Volts: 12
AH: 120
Weight (kg): 32.00

120amp hour - 1849

PROJECTA

MORE SWITCHED ON

THE PRO-WAVE RANGE

DELIVERS ULTRA CLEAN POWER

No matter the appliance you need to run, the Pro-Wave range of inverters has the ideal unit to meet your needs. From the reliable 500W unit with



PW500 Pro-Wave Invertor

SPECIFICATIONS

PART NO. PW500

INPUT 12V DC, 60A Max

NO LOAD CURRENT DRAW <0.8A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 500W Continuous

USB OUTPUT USB-C 18W, USB-A 2.1A

IDEAL BATTERY SIZE 35Ah and above

MINIMUM BATTERY SIZE 25Ah

PW500 Pro-Wave Invertor - 1830



500 WATT
12 VOLT



1100 WATT
12 VOLT



PW1100 Pro-Wave Invertor

SPECIFICATIONS

PART NO. PW1100

INPUT 12V DC, 130A Max

NO LOAD CURRENT DRAW <1.0A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 1100W Continuous

USB OUTPUT USB-C 18W, USB-A 2.1A

IDEAL BATTERY SIZE 75Ah and above

MINIMUM BATTERY SIZE 55Ah

PW1100 Pro-Wave Invertor - 1831



1600 WATT
12 VOLT



PW1600 Pro-Wave Invertor

SPECIFICATIONS

PART NO. PW1600

INPUT 12V DC, 188A Max

NO LOAD CURRENT DRAW <1.2A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 1600W Continuous

USB OUTPUT USB-C 18W, USB-A 2.1A

IDEAL BATTERY SIZE 105Ah and above

MINIMUM BATTERY SIZE 80Ah

PW1600 Pro-Wave Invertor - 1832



2100 WATT
12 VOLT



PW2100 Pro-Wave Invertor

SPECIFICATIONS

PART NO. PW2100

INPUT 12V DC, 247A Max

NO LOAD CURRENT DRAW <1.4A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 2100W Continuous

USB OUTPUT USB-C 18W, USB-A 2.1A

IDEAL BATTERY SIZE 110Ah and above

PW2100 Pro-Wave Invertor - 1833

PROJECTA

MORE SWITCHED ON

THE INTELLI-WAVE RANGE

NO MATTER THE APPLIANCE, LEAVE IT TO INTELLI-WAVE

With class leading pure sine wave technology, Intelli-Wave delivers ultra clean power and unrivalled peak power performance to effortlessly run all your favourite appliances from coffee machines through to power hungry air conditioners.



IP600 Intelli-Wave Pure Sine Wave Inverter

600 WATT
12 VOLT



REMOTE CONTROL



SPECIFICATIONS

PART NO. IP600

INPUT 12V DC, 60A Max

NO LOAD CURRENT DRAW 0.65A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 600W Continuous

EFFICIENCY 85-90%

LOW BATTERY ALARM 10.25 Volt

SHUTDOWN 9.75V ($\pm 0.2V$)

COOLING FAN Automatic temperature controlled

THERMAL SHUTDOWN 65° ($\pm 5^{\circ}C$)

IDEAL BATTERY SIZE 50Ah and above

MINIMUM BATTERY SIZE 30Ah

IP600 Intelli-Wave Pure Sine Wave Inverter - 1857

IP1500 Intelli-Wave Pure Sine Wave Inverter

2000 WATT
12 VOLT



REMOTE CONTROL



SPECIFICATIONS

PART NO. IP1500

INPUT 12V DC Battery/Vehicle (9.75-15.5V DC)

INPUT CURRENT (MAX DC AMPS) 150A

NO LOAD CURRENT DRAW 1A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 1500W Continuous

LOW BATTERY ALARM 9.75V DC (0.25 Volts)

SHUTDOWN Low Battery

COOLING FAN Automatic temperature controlled

IDEAL BATTERY SIZE 105Ah and above

IP1500 Intelli-Wave Pure Sine Wave Inverter - 1858-15

IP1000 Intelli-Wave Pure Sine Wave Inverter

1000 WATT
12 VOLT



REMOTE CONTROL



SPECIFICATIONS

PART NO. IP1000

INPUT 12V DC, 100A Max

NO LOAD CURRENT DRAW 1.2A

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 1000W Continuous

LOW BATTERY ALARM 10.25 Volt

SHUTDOWN 9.75V ($\pm 0.2V$)

COOLING FAN Automatic temperature controlled

IDEAL BATTERY SIZE 75Ah and above

IP1000 Intelli-Wave Pure Sine Wave Inverter - 1858

IP2000 Intelli-Wave Pure Sine Wave Inverter

2000 WATT
12 VOLT



REMOTE CONTROL



SPECIFICATIONS

12 VOLT 24 VOLT

PART NO. IP2000

INPUT 12V DC (9.75-15.5VDC)

INPUT CURRENT (MAX DC AMPS) 200A

NO LOAD CURRENT DRAW 10mA Eco

OUTPUT 240VAC, 50Hz (Pure Sine Wave)

OUTPUT POWER 2000W Continuous

LOW BATTERY ALARM 10.25 Volt

SHUTDOWN 9.75V ($\pm 0.2V$)

COOLING FAN Automatic temperature controlled

IDEAL BATTERY SIZE 100Ah and above

IP2000 Intelli-Wave Pure Sine Wave Inverter - 1859

PROJECTA

MORE SWITCHED ON

THE INTELLI-START RANGE

SMART, COMPACT & POWERFUL.

The revolutionary and patented Rapid Recharge Technology (RRT) built-in to the Intelli-Start range is designed so the jump starter recharges itself from the vehicle it just started in just 40 seconds.



IS1220 1200A 12V Lithium Jumpstarter and USB Power Bank



**LITHIUM
TECHNOLOGY**

SPECIFICATIONS
PART NO. IS1220

BATTERY CAPACITY 3.0Ah at 12.8V, 12,000mAh at 3.2V (38.4Wh)

BATTERY CHEMISTRY Lithium Iron Phosphate (LiFePO4)

BATTERY CYCLES 1800 battery cycles (battery lifespan)

CLAMP POWER 12V 400A maximum current available at the clamps

APPLICATION Emergency only

TYPES OF VEHICLE Starts 12V vehicles up to 7.0L petrol & 4.5L diesel

JUMP STARTER LEADS

LENGTH Positive 310mm, Negative 270mm

IS1220 1200A 12V Lithium Jumpstarter and USB Power Bank - 1860

IS920 900A Lithium Emergency Jumpstarter and Power Bank



**LITHIUM
TECHNOLOGY**

SPECIFICATIONS
PART NO. IS920

BATTERY CAPACITY 1.6Ah at 12.8V, 6,400mAh at 3.2V (20.48Wh)

BATTERY CHEMISTRY Lithium Iron Phosphate (LiFePO4)

BATTERY CYCLES 1800 battery cycles (battery lifespan)

CLAMP POWER 12V 240A maximum current available at the clamps

APPLICATION Emergency only

TYPES OF VEHICLE Starts 12V vehicles up to 6.0L petrol

JUMP STARTER LEADS

LENGTH Positive 310mm, Negative 270mm

IS920 900A Lithium Emergency Jumpstarter and Power Bank - 1861

IS1500 Intelli-Start 12v 1500a Professional Lithium Jumpstarter



**LITHIUM
TECHNOLOGY**

PART NO IS1500

1500A PEAK AMPS, 550A CLAMP POWER

FEATURES

Rapid Recharge Technology (RRT)

Leave the jumpstarter connected to the vehicle for 40 seconds after the vehicle starts for 100% recharge

Docking station

Allows the jumpstarter to be on charge during storage. This balances the battery resulting in 10-20% longer battery life

IS1500 Intelli-Start 12v 1500a Professional Lithium Jumpstarter - 1862



PROJECTA

MORE SWITCHED ON

THE INTELLI-CHARGE RANGE

NO MATTER THE SIZE OR TYPE, LEAVE IT TO INTELLI-CHARGE

Offering world class 7 stage technology and multi-chemistry charging, Intelli-Charge maximises battery performance and life.



IC25 25A Lithium Battery Charger



IC7 7A Lithium Battery Charger

SPECIFICATIONS

PART NO. IC7

TYPE 7 Stage Automatic

INPUT 240VAC, 50Hz, 110W

OUTPUT 12V

OUTPUT CURRENT 1, 2, 4, 7A

MINIMUM START VOLTAGE 2.0V

BACK DRAIN 1mA

IC7 Intelli-Charge - 1870



SPECIFICATIONS

PART NO. IC25

TYPE 7 Stage Automatic

INPUT 240VAC, 50Hz, 450W

OUTPUT 12V

OUTPUT CURRENT 2, 6, 12, 25A

MINIMUM START VOLTAGE 2.5V

BACK DRAIN Charger 3mA, 4mA with remote

APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

IC25 Intelli-Charge - 1873

IC10 10A Lithium Battery Charger



SPECIFICATIONS

PART NO. IC10

TYPE 7 Stage Automatic

INPUT 240VAC, 50Hz, 160W

OUTPUT 12V

OUTPUT CURRENT 2, 4, 6, 10A

MINIMUM START VOLTAGE 2.0V

BACK DRAIN 1mA

APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

16.0V (CALCIUM), 14.2V (LITHIUM)

IC10 Intelli-Charge - 1871

IC15 15A Lithium Battery Charger



SPECIFICATIONS

PART NO. IC15

TYPE 7 Stage Automatic

INPUT 240VAC, 50Hz, 240W

OUTPUT 12V

OUTPUT CURRENT 2, 4, 8, 15A

MINIMUM START VOLTAGE 2.0V

BACK DRAIN Charger 1mA, with remote 2mA

APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

IC15 Intelli-Charge - 1872

IC25RV 25A Lithium Battery Charger

The ideal charger for direct RV fitment. Delivering a sophisticated charge and multichemistry profile selection, this ultra robust 25A unit is engineered to handle the rigours of on and off-road in-vehicle permanent installation.



SPECIFICATIONS

PART NO. IC25RV

TYPE 7 Stage Automatic

INPUT 240VAC, 50Hz, 450W

OUTPUT 12V

OUTPUT CURRENT 2, 6, 12, 25A

MINIMUM START VOLTAGE 2.5V

BACK DRAIN Charger 3mA, 4mA with remote

APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

BATTERY CHARGE TIMES

VOLTAGE BATTERY SIZE CHARGE TIME

AUTOMOTIVE 12V 80-3000CCA 7-24 hrs

MARINE 12V 110-4200MCA 7-24 hrs

DEEP CYCLE 12V 14-500Ah 7-24 hrs

LITHIUM 12V 4-250Ah 2-10 hrs

IC25 Intelli-Charge - 1873RV

PROJECTA

MORE SWITCHED ON

THE INTELLI-CHARGE RANGE

NO MATTER THE SIZE OR TYPE, LEAVE IT TO INTELLI-CHARGE

Offering world class 7 stage technology and multi-chemistry charging, Intelli-Charge maximises battery performance and life.



IC50 50A Lithium Battery Charger



SPECIFICATIONS
PART NO. IC50

TYPE 7 Stage Automatic
INPUT 240VAC, 50Hz, 800W
OUTPUT 12V

OUTPUT CURRENT 2, 6, 12, 25, 50A
MINIMUM START VOLTAGE 1.0V

BACK DRAIN Charger 1mA, 2mA with remote
APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

IC50 Intelli-Charge - 1875



IC35 35A Lithium Battery Charger

SPECIFICATIONS
PART NO. IC35

TYPE 7 Stage Automatic
INPUT 240VAC, 50Hz, 570W
OUTPUT 12V

OUTPUT CURRENT 2, 8, 16, 35A
MINIMUM START VOLTAGE 2.5V

BACK DRAIN Charger 1mA, 2mA with remote
APPROVALS Electrical Safety, EMC

CHARGE VOLTAGE 14.1V (GEL), 14.4V (AGM), 14.7V (WET),

IC35 Intelli-Charge - 1874

PROJECTA

MORE SWITCHED ON

IDCX & INTELLI-IQ

UNPARALLELED CONNECTIVITY & CONTROL

Projecta's IDCX & Intelli-IQ revolutionises dual battery systems. IDCX is the most advanced DC to DC charger and when coupled with the Intelli-IQ it creates limitless possibilities in controlling devices and accessories connected to the system.



**IDC50X Multi-Chem | 9-32V
Dual Battery Charger**



SPECIFICATIONS

PART NO. IDC50X

IDC50XI - IDC50X Plus IQD2
Display

CHARGE TYPE 5 Stage
ALTERNATOR INPUT VOLTAGE
9-32Vdc

MAX SOLAR INPUT 32Vdc, 800W
OUTPUT CURRENT Input 9-11Vdc
37A, Input 11-32Vdc 50A

BATTERY SUPPORTED Gel, AGM,
Wet, Calcium, Lithium

STANDBY CURRENT 8mA
OPERATING TEMPERATURE -10°C
to +80°C

SMART ALTERNATOR 12V
VEHICLE 24V VEHICLE

Turn On 12.2-20V 24.4-32V
Turn Off <11.9V <24V

CONVENTIONAL ALTERNATOR
Turn On 13.4-20V 26.8-32V

IDC50X - 1866

**IDC25X Multi-Chem | 9-32V
Dual Battery Charger**



SPECIFICATIONS

PART NO. IDC25X

IDC25XI - IDC25X Plus IQD2 Display
CHARGE TYPE 5 Stage

ALTERNATOR INPUT VOLTAGE
9-32Vdc

MAX SOLAR INPUT 32Vdc, 400W
OUTPUT CURRENT Input 9-11Vdc
20A, Input 11-32Vdc 25A

BATTERY SUPPORTED Gel, AGM,
Wet, Calcium, Lithium

STANDBY CURRENT 8mA
OPERATING TEMPERATURE -10°C
to +80°C

SMART ALTERNATOR 12V VEHICLE
24V VEHICLE

Turn On 12.2-20V 24.4-32V
Turn Off <11.9V <24V

CONVENTIONAL ALTERNATOR
Turn On 13.4-20V 26.8-32V

IDC25X - 1865



PROJECTA

MORE SWITCHED ON

IDCX & INTELLI-IQ

UNPARALLELED CONNECTIVITY & CONTROL

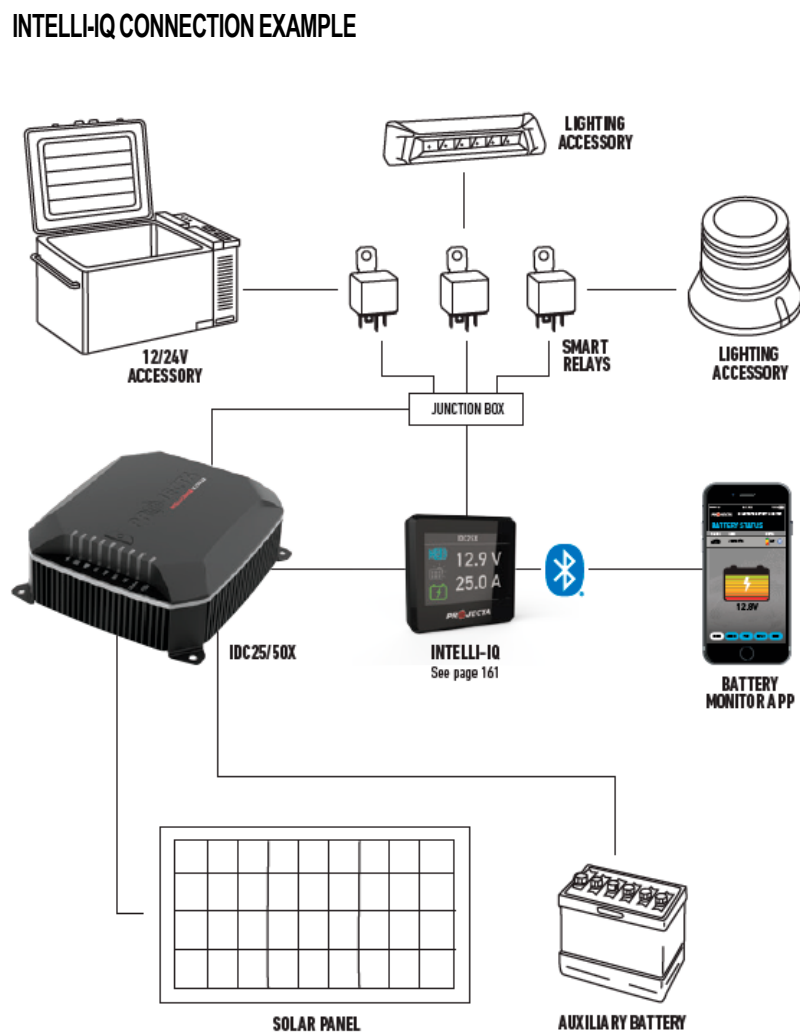
Smart DC to DC chargers specifically designed for Intelli-RV and Intelli-Grid. Users can choose between 30A or 60A units. PMDCS30 and PMDCS60 can be used independent from the Intelli Grid system.



**PMDCS30-20 DC-DC 12V
CHARGER WITH 20A BYPASS**



SPECIFICATIONS
 PART NO. PMDCS30-20
 CHARGE TYPE 5 Stage
 ALTERNATOR INPUT VOLTAGE 12~16V
 OUTPUT 12V, <30A
 BYPASS RELAY OUTPUT 12V, 20A
 BATTERIES SUPPORTED Wet, Gel, AGM, Lithium
 ALTERNATOR TYPE Smart & Conventional
 STORAGE TEMPERATURE -40~70°C
 OPERATING TEMPERATURE -40~70°C
 TEMPERATURE COMPENSATION -3mV/°C/Cell
 IP RATING IP20
 WEIGHT 1.0Kg
 COOLING Convection
 SMART ALTERNATOR Turn on 12.2V
 Turn off 11.6V
 CONVENTIONAL Turn on 13.2V
 Turn off 12.8V



PMDCS30 30A DC-DC 12V CHARGER

PMDCS60 60A DC-DC 12V CHARGER



SPECIFICATIONS
 30 AMP 60 AMP
 PART NO. PMDCS30 PMDCS60
 CHARGE TYPE 5 Stage
 ALTERNATOR INPUT VOLTAGE 12~16V
 OUTPUT 12V, <30A 12V, <60A
 BATTERIES SUPPORTED Wet, Gel, AGM, Lithium
 ALTERNATOR TYPE Smart & Conventional
 STORAGE TEMPERATURE -40~70°C
 OPERATING TEMPERATURE -40~70°C
 TEMPERATURE COMPENSATION -3mV/°C/Cell
 IP RATING IP20
 WEIGHT 1.0Kg
 COOLING Convection
 SMART ALTERNATOR Turn on 12.2V
 Turn off 11.6V
 CONVENTIONAL Turn on 13.2V
 Turn off 12.8V



24 -12V DC-DC Converter 7 Amp



Specifications:

- MP-3061DC current rating : 7A
- DC Current Surge Rating : 10A
- DC Voltage : 13.8V
- Length : 160mm
- Width : 48mm
- Height : 48mm
- Required Voltage : 20V, 30V
- Vehicle Connection : Bare Leads
- Item Connection : Hard Wired
- Packaged Volume : 2.11l
- Output Type : Bare Leads
- Number of Outputs : 1pc
- Efficiency : 85%

24 -12V DC-DC Converter 10 Amp-1910

240v to 12v 7.5 AMP Converter



- Input voltage: 240VAC
- Output voltage: 12VDC
- Output current: 7.5A
- Dimensions: 157(L) x 90(W) x 57(H)mm

240v to 12v 7.5 AMP Converter - 1945

240v to 12v 12.5 AMP Converter



Suitable for 12 volt car refrigerator/warmer
Input: 240 VAC Output: 12VDC 12.5A

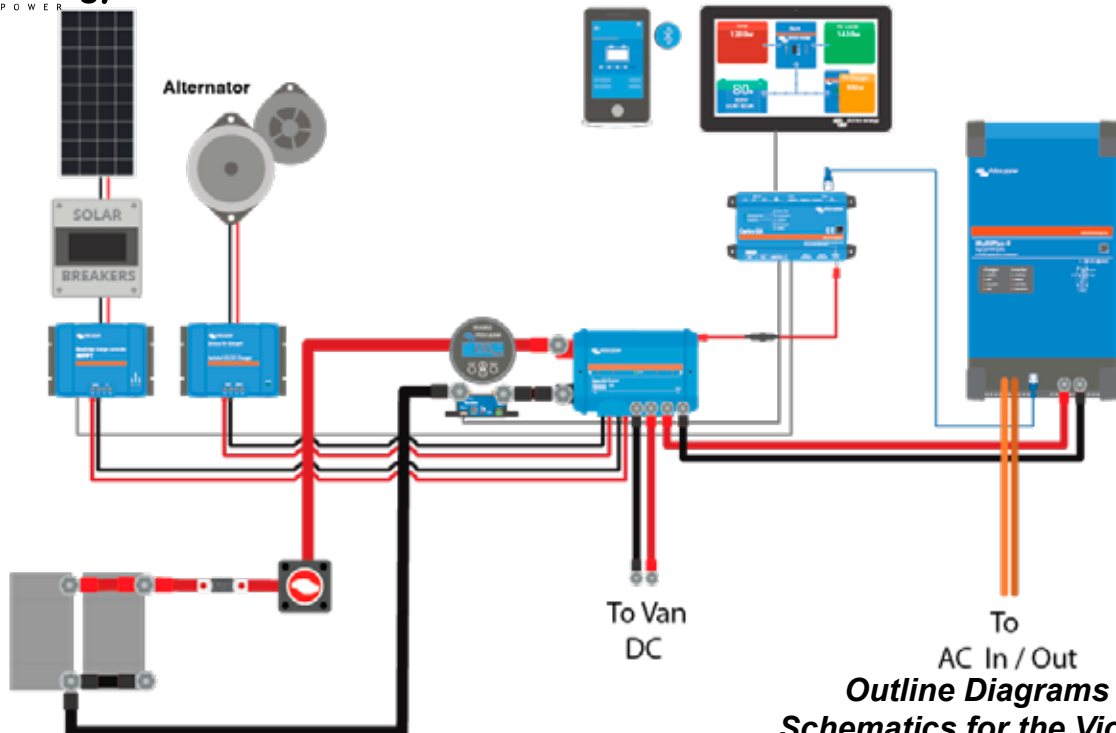
Adaptor 240v/12vdc - 1946

24 - 12V DC-DC Converter 15 Amp

Specifications:

- DC current rating : 15A
- DC Current Surge Rating : 20A
- DC Voltage : 13.8V
- Length : 210mm
- Width : 90mm
- Height : 50mm
- Required Voltage : 20V, 30V
- Vehicle Connection : Bare Leads
- Item Connection : Hard Wired
- Output Type : Bare Leads
- Efficiency : 85%

24 - 12V DC-DC Converter 20 Amp-1924



**Outline Diagrams & Wiring
Schematics for the Victron Van**



victron energy

B L U E P O W E R

victron energy **Victron MultiPlus 12/3000/120-16 230V VE.Bus (PMP122300001)**



The MultiPlus will prevent overload of a limited AC source, such as a generator or shore power connection. First, battery charging will automatically be reduced when otherwise an overload would occur. The second level will boost the output of a generator or shore side supply with power taken from the battery.

Victron MultiPlus 12/3000/120-16 230V VE.Bus (PMP122300001)- 2009

victron energy **Victron Energy MultiPlus-II 12/3000/120-32 230V (PMP122305010)**



Incorporating all the features of the MultiPlus inverter and charger combinations, the MultiPlus II adds an external current sensor option to enable the PowerControl and PowerAssist functions to extend to 50A and 100A respectively. It can be used in off-grid as well as grid-connected PV and other alternative energy systems and is compatible with both solar charge controllers and grid-tie inverters. Other features include:

- True sine wave inverter
- Adaptive charging
- Hybrid PowerAssist

Victron Energy MultiPlus-II 12/3000/120-32 230V (PMP122305010)- 2010

victron energy **Victron Energy MultiPlus Compact 12/2000/80 VE.BUS (CMP122200000)**



The MultiPlus, as the name suggests, is a combined inverter and charger in one elegant package. Its many features include a true sine wave inverter, adaptive charging, hybrid PowerAssist technology, plus multiple system integration features.

Unique PowerAssist feature
The MultiPlus will prevent overload of a limited AC source, such as a generator or shore power connection. First, battery charging will automatically be reduced when otherwise an overload would occur. The second level will boost the output of a generator or shore side supply with power taken from the battery.

Victron Energy MultiPlus Compact 12/2000/80 VE.BUS (CMP122200000) - 2011

victron energy **Victron MultiPlus 12/1200/50 Inverter Charger VE.BUS (PMP122120000)**



Multifunctional

The MultiPlus, as the name suggests, is a combined inverter and charger in one elegant package. Its many features include a true sine wave inverter, adaptive charging, hybrid PowerAssist technology, plus multiple system integration features.

Unique PowerAssist feature
The MultiPlus will prevent overload of a limited AC source, such as a generator or shore power connection.

Victron MultiPlus 12/1200/50 Inverter Charger VE.BUS (PMP122120000) - 2012

victron energy **Victron Energy EasySolar-II 24/3000/70-32 MPPT 250/70 GX (PMP242307010)**



The all-in-one solar power solution:

The Victron EasySolar-II GX integrates the following elements:

- A MultiPlus-II inverter/charger
- A SmartSolar MPPT -Tr solar charge controller
- A GX device with a 2 x 16 character display.

These elements come prewired together inside a single unit. This greatly simplifies most installations, saving time and money.

Victron Energy EasySolar-II 24/3000/70-32 MPPT 250/70 GX (PMP242307010) - 2013

victron energy **Victron SmartShunt 500A/50mV (SHU050150050)**



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.

Victron SmartShunt 500A/50mV (SHU050150050)- 2014



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BLUE POWER



**Victron Energy SmartShunt
500A/50mV IP65 (SHU065150050)**



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.

**Victron Energy SmartShunt 500A/50mV
IP65 (SHU065150050)- 2014P**



**Victron Smart Solar MPPT
100/30 30A Solar Controller
(SCC110030210)**



SmartSolar maximises this energy-harvest, driving it intelligently to achieve full charge in the shortest possible time. SmartSolar maintains battery health, extending its life.

The SmartSolar charge controller will even recharge a severely depleted battery. It can operate with a battery voltage as low as 0 Volts, provided the cells are not permanently sulphated or otherwise damaged.

**Victron Smart Solar MPPT 100/30 30A
Solar Controller (SCC110030210)- 2015**



**Victron SmartSolar MPPT
100/50 Bluetooth Solar Controller
(SCC110050210)**



A solar charger gathers energy from your solar panels, and stores it in your batteries. Using the latest, fastest technology, BlueSolar maximises this energy-harvest, driving it intelligently to achieve full charge in the shortest possible time. BlueSolar maintains battery health, extending its life.

**Victron SmartSolar MPPT 100/50 Bluetooth
Solar Controller (SCC110050210)- 2016**



**Victron Energy Orion-Tr Smart 12/12-30A (360W)
Isolated DC-DC charger
(ORI121236120)**



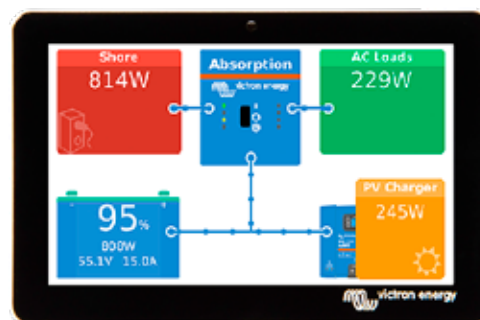
TF for use in dual battery systems in vehicles or on boats where the (smart) alternator and the start battery are used to charge the service battery. The unit can be monitored and programmed via Bluetooth and can be remotely controlled via a remote on/off switch and has an engine running detection

The Orion-Tr Smart charger can be used in 12V or 24V systems and is suitable for both lead acid and lithium batteries.

**Victron Energy Orion-Tr Smart 12/12-30A (360W) Isolated DC-DC
charger (ORI121236120)- 2017**



**Victron Energy Gx
Touch 50 For Cerbo GX
(BPP900455050)**



The five inch touch screen display give an instant overview of your system and allow to adjust settings in the blink of an eye. Simply connected to the Cerbo GX with one cable.

Victron Energy Gx Touch 50 For Cerbo GX (BPP900455050) - 2018



**Victron Energy Cerbo GX
Touch 70 (BPP900455070)**



The seven inch touch screen display give an instant overview of your system and allow to adjust settings in the blink of an eye. Simply connected to the Cerbo GX with one cable.

Victron Energy Cerbo GX Touch 70 (BPP900455070) - 2018L



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B L U E P O W E R



Victron Energy Cerbo GX Main Unit (BPP900450100)



Instantly monitor the battery state of charge, power consumption, power harvest from PV, generator, and mains, or check tank levels and temperature measurements.

Victron Energy Cerbo GX Main Unit
(BPP900450100) - 2019



Victron Energy Cerbo-S GX Basic Cerbo Main Unit



Same as the Cerbo GX but without BMS-Can port, Tank- and Temperature monitoring inputs.

Victron Energy Cerbo-S GX Basic Cerbo
Main Unit - 2019S



Victron Blue Smart Ip22 Charger 12/30A (Single Outlet) (BPC123047012)



The Blue Smart IP22 Charger is the new professional battery charger with built-in bluetooth. The Blue Smart IP22 Charger can be used on devices in your workshop and on motor vehicles, such as (classic) cars; motorbikes; boats and camper-vans.

Victron Blue Smart IP22 Charger 12/30A
(Single Outlet) (BPC123047012) - 2020



Victron Energy Blue Smart IP22 12/30 3 Output Charger



The Blue Smart IP22 Charger is the new professional battery charger with built-in Bluetooth. The Blue Smart IP22 Charger can be used on devices in your workshop and on motor vehicles, such as (classic) cars; motorbikes; boats and camper-vans.

This charger is ideal for motorhomes with a House and Start battery. This charger has the ability to charge both batteries at the same time while plugged into mains.

Victron Energy Blue Smart IP22 12/30 3 Output Charger - 2020-3



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B L U E P O W E R



victron energy
BLUE POWER

Victron Battery Monitor Bmv-712 Smart W/Bluetooth (BAM030712000)



With Bluetooth built-in, the BMV Smart is ready for the Internet of Things (IoT) era. With Bluetooth being implemented in most other Victron Energy products, wireless communication between products will simplify system installation and enhance performance.

**Victron Battery Monitor Bmv-712 Smart W/Bluetooth
(BAM030712000) - 2021**



victron energy
BLUE POWER

Victron BMV-712 Black Battery Monitor W/Bluetooth



The BMV-712 is the latest high precision battery monitor from Victron. The BMV-712 monitors voltage and current of a single battery bank and calculates power, state-of-charge and time-to-go. It also features an additional voltage input that can be used to measure an auxiliary or starter battery voltage, midpoint voltage or temperature with the optional temperature sensor.

Victron Bmv-712 Black Battery Monitor W/Bluetooth - 2022



victron energy
BLUE POWER

Victron Energy Blue Smart IP67 Charger 12/25



The Blue Smart IP67 Waterproof Charger is the new professional battery charger with built-in Bluetooth. The Blue Smart IP67 Waterproof Charger can be used on devices in your workshop and on motor vehicles, such as (classic) cars; motorbikes; boats and camper-vans.

**Victron Energy Blue Smart IP67 Charger
12/25 - 2023**



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BLUE POWER

Victron Multiplus 24/5000/120- 50 Inverter/Charger



The MultiPlus-II combines the functions of the MultiPlus and the Multi Grid. It has all the features of the MultiPlus, plus an external current transformer option to implement PowerControl and PowerAssist and to optimize self-consumption with external current sensing (max. 32A). It also has all the features of the MultiGrid with built-in anti-islanding and an increasingly long list of country approvals.

**Victron Multiplus 24/5000/120-50
Inverter/Charger - 2024**



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BLUE POWER

Victron Energy 100A Buck- Boost DC/DC Converter



The DC-DC converter Buck-Boost is a DC-DC converter for charging a 12V or 24V battery in vehicles with an intelligent alternating current generator. The converter charges the additional battery with a preset charging voltage, whereby high voltages (e.g. Mercedes: 15.4V) or low voltages. System for detection when "engine running"

**Victron Energy 100A Buck-Boost DC/DC
Converter - 2025**

