

Solar Sets

Solar set 12V/32W
Solar set 12V/65W



Solar set with Kyocera solar panel, regulator and battery



Part No.	Ord.No.	1+
S SOLAR SET 12V/32W	63260	12V, 32Wp, 0,27m ² , 42Ah 331,60
S SOLAR SET 12V/65W	71545	12V, 65Wp, 0,49m ² , 38Ah 494,60

S4.500 set

NEW!

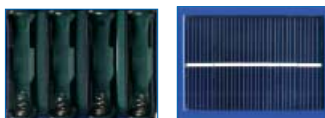


The S4 is a completely sealed and maintenance free 12VDC electricity storage system that can be charged directly from any size solar panel ranging from 10 up to 120 Wp or from other power sources like the Sunday DC10. The unit is equipped with a unique electronic battery state of charge display (LCD) and a buzzer to warn user when battery is running low. It is completely Plug and Play and comes with a standard cable set that can be plugged into the S4.

Part No.	Ord.No.	1+
O S4.500 set	71591	12V, 500Wh, 10A 213,0

Solar Chargers

BACHA-4S



Solar Battery Charger
For 1-4 pcs AA Ni-Cd/Ni-MH batteries
Voltage: 1,5 V
No-load voltage: 2,6 V
Working voltage: 1,7 V
Current: 150 mA
Dimensions: 82x60x18 mm

Part No.	Ord.No.	1+	2+	5+
S BACHA4-S	46583	14,54	14,11	13,54

Wind Turbines

Air Breeze



The new microprocessor based speed control results in increased performance, improved battery charging capability and the reduction of "flutter" noise from the machine. The controller allows for peak-power tracking of the wind by optimizing the alternator's output on all points of the cubic curve and then efficiently delivers the energy to the battery. The turbine's smart controller allows it to actually control blade rotation speed thus eliminating the buzzing noise. Furthermore, a new series of carbon-reinforced blades with a modified pitch angle further increases power production.

Technical Parameters	AIR BREEZE
Rotor Diameter	46 in (1.17 m)
Weight	13 lb (5.9 kg)
Mount	1.5 in schedule 40 1.9 in (48 mm) OD pipe
Start-up wind speed	6 mph (2.68 m/s)
Voltage	12/24VDC
Rated power	200 watts at 28 mph (12.5 m/s)
Monthly Energy Production	38 kWh/mo at 12 mph (5.4 m/s)

Part No.	Ord.No.	1+
S Air Breeze Land Wind Generator 12V	73941	655,-
O Air Breeze Land Wind Generator 24V	73995	643,-

Solar Charge Regulators

CML 05



Charge Regulator with Nightlight Function
Two nightlight modes with one programmable timer

- Battery State-of-Charge and charge status display
- Load disconnect indication
- Load short circuit and overload indication
- Acoustic load disconnect pre-warning
- PWM regulation (series type)
- Integrated temperature compensation
- Three-state charging method
- SOC and voltage controlled LVD
- Automation 12 / 24 Volt detection
- Solid-state circuit and load protection
- Reverse polarity protection
- Fully electronically protected
- Large terminals (up to 16 mm²)
- Holder for DIN rail mounting available

Nominal voltage: 12/24V
Output Voltage with load: 12,8/25,6V
Max. charging voltage: 14,5/29V
Max. input current: 5A
Max. Output Current: 5A
Dimensions: 80x100x32mm

Part No.	Ord.No.	1+	2+	5+
S CML 05	61317	30,41	29,48	26,82

CX 10



Solar Charge Regulator with LC Display

- Battery State-of-Charge display LCD
- Charge and discharge status display
- Acoustic load disconnect pre-warning
- Load status indication
- Choose between 3 load disconnect algorithms boost/absorption/float PWM-regulation (series type)
- Prepared for DIN rail mounting
- Automatic 12 / 24 Volt detection
- Integrated temperature compensation
- Covered terminals (up to 16mm² wire size)
- Full solid-state protection

Nominal voltage: 12/24V
Output Voltage with load: 12,8/25,6V
Max. charging voltage: 14,5/29V
Max. input current: 10A, 20A, 40A
Max. Output Current: 10A, 20A, 40A
Dimensions: 80x100x32mm

Part No.	Ord.No.	Description	1+	2+	5+
S CX 10	61318	Output Current 10A	54,11	52,45	47,80
O CX 20	72352	Output Current 20A	91,00	83,80	80,50
O CX 40	72353	Output Current 40A	52,40	50,70	46,30
O CX USB	71834	Software + cable	52,40	50,70	46,30

APPLE 20

NEW!



The unique small PV charger/discharger, specially designed for very low cost applications based on SMD technology. The Apple is extremely power efficient due to its very low voltage drop over both input and output switching Mosfets, and a buzzer to indicate that user is close to LVD (Low Voltage Disconnect). The Apple also has an electronic master-switch or On/Off-switch, and a clear state of charge indicator that also gives you a good indication during charging.

Frequent cycling of the battery at a very low state of charge causes fast deterioration of the battery due to sulfation and stratification. The Apple does not allow the user to frequently operate the battery at low state of charge.

Nominal Voltage: 12/24V
Output Voltage with Load: 12,8/25,6V
Max. Charging Voltage: 14,5/29V
Max. Input Current: 10A, 20A, 40A
Max. Output Current: 10A, 20A, 40A
Dimensions: 80x100x32mm

Part No.	Ord.No.	1+	2+	5+
S APPLE 20	74112	37,00	325,80	32,70

DC 10

NEW!



The DC10 can be used in combination with S3/S4 and almost any 220 VAC power source to form a powerful continuous power supply (CPS) system. It provides a stable 12VDC output, straight to the application, or to the S3/S4. The unit is capable of handling a maximum load of 10A. In areas with bad electricity grid a CPS provides the comfort and security of never failing lamps and applications.

Part No.	Ord.No.	1+
S DC10	71609	78,-