



**Maintenance free 12VDC electricity storage system**

**LED display with clear 'State of System' indicators**

**Available with 40Ah and 55Ah long life battery**

**Plug & Play installation**

#### Function / Features

Maintenance free 12VDC electricity storage system

LED display with clear 'State of System' indicators

Available with 40Ah and 55Ah long life battery

Plug & Play installation

#### Product description

The S4a (Sundaya Smart Storage System analog) 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 120Wp or from other powersource like Sundaya's DC10.

The unit is equipped with a unique electronic battery management system with a clear battery state of charge display (LED) and buzzer to warn user when battery is running low.

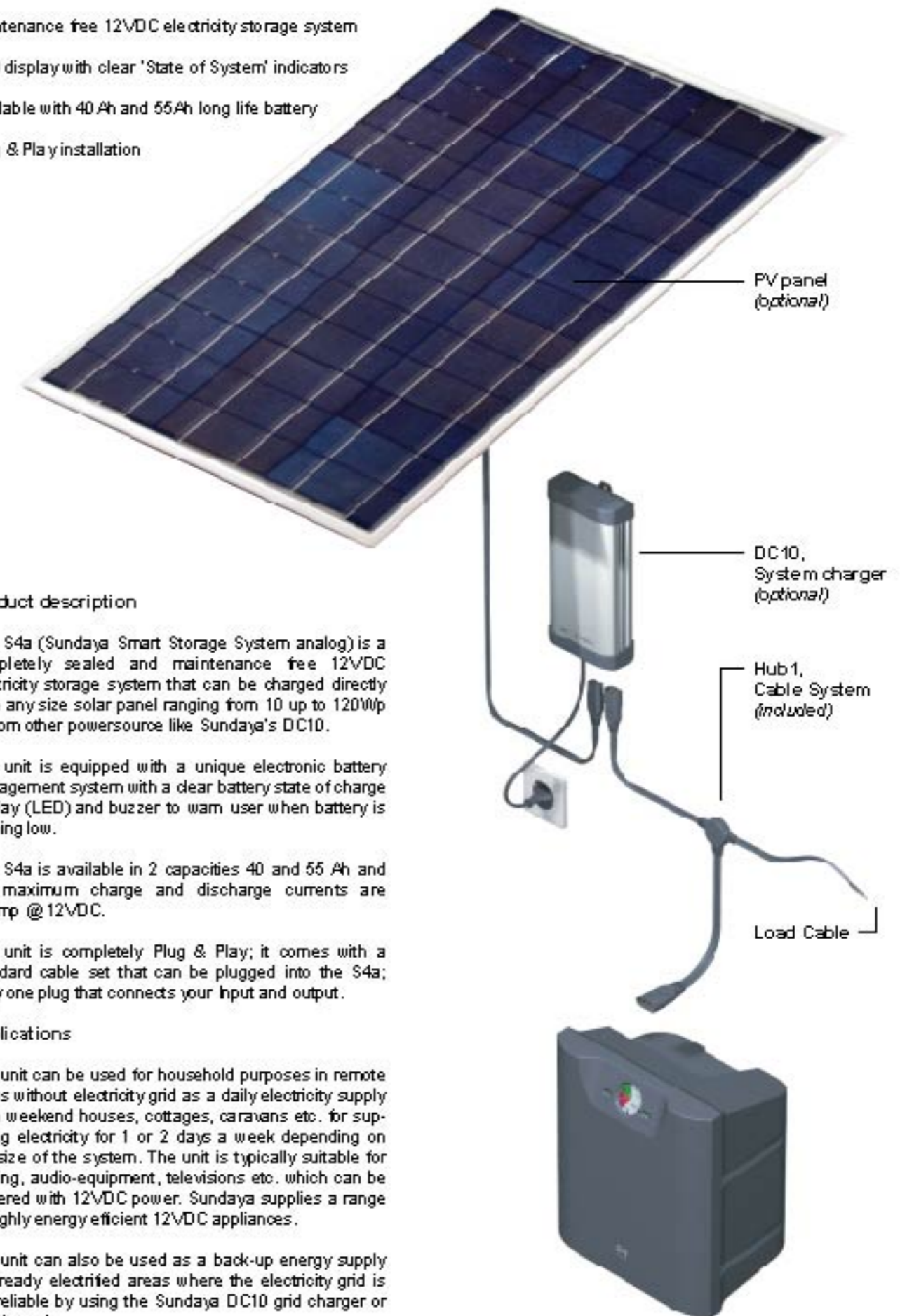
The S4a is available in 2 capacities 40 and 55 Ah and the maximum charge and discharge currents are 10Amp @ 12VDC.

The unit is completely Plug & Play; it comes with a standard cable set that can be plugged into the S4a; Only one plug that connects your Input and output.

#### Applications

The unit can be used for household purposes in remote areas without electricity grid as a daily electricity supply or in weekend houses, cottages, caravans etc. for supplying electricity for 1 or 2 days a week depending on the size of the system. The unit is typically suitable for lighting, audio-equipment, televisions etc. which can be powered with 12VDC power. Sundaya supplies a range of highly energy efficient 12VDC appliances.

The unit can also be used as a back-up energy supply in already electrified areas where the electricity grid is not reliable by using the Sundaya DC10 grid charger or a PV panel.



PV panel  
(optional)

DC-10,  
System charger  
(optional)

Hub 1,  
Cable System  
(included)

Load Cable

#### Socket

The unit is completely Plug & Play; it comes with a standard cable set that can be plugged into the S4a; Only one plug that connects your input and output.

#### Activator

The unit is equipped with an activator which connects the battery to the controller. The activator needs to be removed during shipment and in case of long storage without being connected to a charging source.

#### Carrying Handle

The unit weighs approximately 18 kgs! To make handling easier it is equipped with a strong carrying handle.

#### Wall bracket

The S4a can be placed directly on any straight surface or it can be mounted on a wall or pole. A special wall bracket and installation material are included.

#### Safety Aspects

Since the unit is equipped with a sealed lead acid battery the unit should be transported/installed taking into account the safety measures normally applicable to sealed lead acid batteries. For detailed safety aspects we refer to the installation manual.

#### Guarantee

Sundaya Solar Generators are guaranteed against defects caused by faulty components or factory errors for 1 year after purchase.

#### General Specifications

Product name	: S4a (Sundaya Smart Storage System analog)
Product Type	: S4a.480; S4a.660
Product description	: 12VDC Electricity Storage System with integrated smart electricity management electronics.

#### Electrical Specifications

S4 Type	: S4a.480	S4a.660
Nominal System Voltage	: 12 VDC	12 VDC
Charge Input Voltage Range	: 13.5- 14.5 VDC	13.5-14.5 VDC Maximum Charge
Current	: 10 Amp	10 Amp
Load Output Voltage Range	: 11.5-14.5 VDC	11.5-14.5 VDC
Maximum Load Current	: 10 Amp	10 Amp
Maximum Storage Capacity	: 480 Watthours	660 Watthours
Controller Efficiency	: 98 %	98 %
Controller Software	: Forced Health Improvement (FHI)®	
Other functionality	: - Electronic overload / short circuit protection, - Reverse polarity protection	
Indicator model	: LED Display Indicator	
Power consumption (on/off)	: 0.1 A (max) / 0 A	
Battery low Condition (0%)	: 11.65 +/- 0.05 V	
Battery Full Condition (100%)	: 12.55 +/- 0.05 V	
Indicator for Battery State of Charge	: (0 - 100%) LED Displays Indicator of Charge (8 steps) with push button Power switch and Display switch. - Indicator for Charging mode condition - Indicator for Penalty condition - Indicator for Power Off, Short/Overload condition - Indicator for battery cut-off condition	
Wiring & Sockets	: - Module Input and Load Output Female socket, - Activator socket	

#### Mechanical Specifications

Enclosure Materials/Color	: ABS/Grey
Standard battery	: 40 Ah      55 Ah
Gross weight(Inc. Sundaya dry battery)	: 17 kg      19 kg
Product dimensions (LxWxH)	: 275 x 206 x 295 mm

Sole Agent :

Because of continuous research and development of our products the information and specifications in this data sheet are subject to change without prior notice.

 **Sundaya**

