



## **Autonomous Solar Electricity Generator**

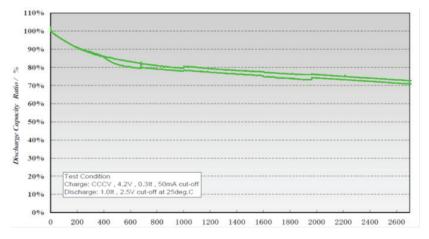
# "NoGrid" Solution

The new solution "NoGrid" of Solartechno Europe BV is an innovative Electrical Energy Storage system which can be directly mounted on the back of the photovoltaic module having 3 functionalities integrated all in one:



SIMPLE INSTALLATION LONG LIFE CYCLE SAFE RELIABLE to achieve customer needs standard connectors plug & play up to 10 years tested up to 55 °C electricity supply





Integrated innovative cooling system able to extend the battery cycle life and avoid fast aging Up to 10 years of cycle life with 80% DoD Operating ambient temperature from -10 °C up to 55 °C for 5 hours continuous a day



## **DC Input (PV Solar Panel)**

Maximum solar module power Maximum open circuit voltage \* Maximum short circuit current Operating voltage range Minimum starting voltage PV connectors

Up to 350 Wp 60 Vdc 15 A 6 - 60 Vdc 6 Vdc 1 x MC4 plug and socket

### **Battery Pack**

Technology	Lithium-ion (LiNiCoAlO2)
Manufacturer	Panasonic
Capacity	1182 Wh
Deepth of Discharge - DoD	Programmable on customer needs
Rated capacity at 85% DoD	1000 Wh
Nominal continuous output power	500 W
Nominal operating voltage range	43.9 - 58.1 V
Over Voltage protection	58.8 V
Under Voltage protection	43.9 V
Overload protection	12.5 A (disconnect with a 4 seconds retry rate)
Short-circuit protection	16 A (fused accessible from outside)

#### System Output

Rated electrical output Monitoring system Output connectors

48 Vdc - 10.0 A On mobile phone via bluetooth monitoring of battery state of charge and health, voltage, charging and discharging current, temperatures 120 Ampere 1000 Volt (for putting in parallel up to 10 NoGrid)

#### **Mechanical & Environment**

Box dimensions (W $\times$ H $\times$ D)	620 mm x 830 mm x 45 mm
Weight	${\sim}17,5~kg$ (excluded solar panel and mounting braces)
Ambient temperature range	-10 °C up to 55 °C
Solar panel temperature range	-20 °C up to 85 °C
Cooling	natural convection + patented passive cooling
IP protection	IP65
Expected cycle life	10 years @: 80% DoD - 55 °C ambient
	temperature (for no more than 5 hours per day)
Humidity	0÷100%

#### Warranties

Product warranty Battery capacity

5 years 70% at 8 years

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