

Model**ARVEY A1****Class****1KW230/24V****ARVEY**

POWER TO GO

ARTICLE NUMBER: 010100006

SOLAR GENERATOR WITH ENERGY STORAGE SYSTEM

230 V solar power to go

ARVEY A1 is your personal portable plug. This device runs many common household electric devices independently of your location and almost without emissions - with self-generated solar energy. Any energy surplus gets stored and stays available to use even after the sun has set.

On a farm, on the road, in a trailer, for projects in the field, on photo shootings and everywhere else E-Generator is your companion you can rely on.



TECHNICAL DATA:

WEIGHT	2.9 kg Electronics, Set weight 11.2 kg
DIMENSIONS	345 mm * 175 mm * 75 mm (electr.) 415 mm * 190 mm * 280 mm (Set)
CASING	Aluminum, brushed
OPERATING TEMPERATURE	-25 °C to 60 °C
IP CLASS	IP44

PERFORMANCE:

OUTPUT VOLTAGE	230 V AC 12 V DC, 180 W 20 A 5 V DC, 2.1 A
OUTPUT FREQUENCY	60 Hz / 50 Hz
OUTPUT FORM	Pure sine wave
OUTPUT RANGE	22.5 V – 29.2 V
CONTINUOUS OUTPUT AC	1000 W
BRIEF PEAK OUTPUT AC	2000 W
INVERTER EFFICIENCY	90 %
STANDBY POWER REQUIREMENT INVERTER ON	< 200 mA
STANDBY POWER REQUIREMENT INVERTER OFF	< 8 mA
SOLAR CONTROLLER	24 V 40 A
MAXIMUM PV VOLTAGE	27 V - 40 V (max. 48 V Voc)

AIRLINE INFORMATION

This device contains one Lithium-Iron-Phosphate-Polymer Battery (LiFePO4) included in the equipment with a battery raw weight of 4.2 kg and 480 Wh of nominal capacity.

According to IATA guidelines it is classified under:

- UN3481
- PI 967 Section I
- IMP: RLI

Packaging must be marked with the following label:



The ARVEY A1 Battery is encased in a 3 mm sealed aluminum casing and protected from spilling, explosion and fire.

Passed UN38.3 test reports can be requested from:

info@arvey.eu

Model

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ELEMENTS FRONT:

Outlet 230 V AC

Automotive standard socket 12 V DC

Hollow plug socket 12 V DC

USB TYP A 5 V 2.1 A

2 LED Inverter status (green/red)

1 LED System overheat (orange)

ELEMENTS REAR:

Solar cable connector MC4 + (plus)

Solar cable connector MC4 - (minus)

Battery cable connector covered full + (plus)

Battery cable connector covered full - (minus)

ELEMENTS TOP:

LED Display (battery charge, battery voltage, power input / PV and output, battery health)

CONNECTORS INTERNAL:

USB TYP A 5 V 2.1 A

SAFETY:

ANTI VOLTAGE PROTECTION	2 * 15 A fuse
INVERTER PROTECTION	2 * 15 A fuse
BATTERY LOW VOLTAGE ALARM	22.5 V - 23.5 V
BATTERY LOW VOLTAGE SHUTDOWN	< 22.5 V
OVERLOAD PROTECTION	1200 W
SHORT CIRCUIT PROTECTION	20 A (DC output)
ANTI REVERSE POLARITY PROT.	40 A

OPT. ACCESSORIES

Solar panels

Solar cable

Grounding cable

Battery

Battery cable

AC-Quick charger 120 W

Fuses 20 A

Lamp 2 W, 12 V

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SOLAR GENERATOR WITH ENERGY STORAGE SYSTEM**PERFORMANCE DATA ENERGY STORAGE:**

CHARGE VOLTAGE	29,2 V
NOMINAL VOLTAGE	24 V
NOMINAL CAPACITY	20 Ah at 0,5 C discharge
CHARGING CURRENT	Standard charging: 0,125 C at 60 W Quick charging: 0,25 C at 120 W
STANDARD CHARGING PROCEDURE	ARVEY grid charger (Power supply 60/120 W)
CHARGING DURATION	Standard: 8 hours Quick: 4 hours
CHARGING CURRENT	50 A max.
DISCHARGING CURRENT	50 A continuously max.
DISCHARGE-CUTOFF VOLTAGE	21,4 V
STORAGE TEMPERATURE	-10 °C to +50 °C
CHARGE CYCLES	> 1000
CHARGE RETENTION	5 %
RAW BATTERY WEIGHT	4,2 kg
BATTERY TYPE	Lithium-Iron-Phosphate Polymer (LiFePo4)

SAFTEY TESTS:

SHORT CIRCUIT	No explosion, no fire
OVERCHARGE	No explosion, no fire
NAIL TEST (PIERCING)	No explosion, no fire
OVEN TEST (OVERHEATING 130°C)	No explosion, no fire
VIBRATION TEST	No fire, no spill
DROP TEST (2* 1,0 METERS WITH ROTATION)	No fire, no spill
CERTIFICATIONS	CE, RoHs, compliant to UN38.3

Specifications and Design can be changed at any time and without further notice.

State: MAY 2020

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AXSOL

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