

# Small Solar Kit 14AH battery / 40W Solar Panels

Main unit battery



All in one backpack



INPUT  
(to charge main unit)



2 x 20W solar panels



Charge  
from  
vehicle



Charge from  
110/220V

OUTPUT accessories (to charge devices)



2x USB  
2x Cigar plugs



3x All-type phone  
charger cables



USB 8 ports Hub  
charger (on 220V)

## Code

KENGSOA150WH

## Description

KIT, SOLAR PANELS 40W, 12V/USB/230V with 14Ah battery

## General information

Small and portable solar kit to power/charge devices on USB, 12V car socket.

It can also power/charge low consumption 220V devices such as laptops, lights... (80W max load!)

However, using the 220V outlet will discharge the battery pretty quick, even more if used while the battery is not being charged (i.e. night time when solar panels is the only source)

In any case, always try to keep the battery under charging mode and keep an eye at the charging level indicator ! Not recommended for high power needs.

Can be charged either from solar panels, 110/220VAC source or car socket 12V - 24V

## Designed for:

- **Charging station** for beneficiaries during RFL activity (Restoring Family Links)
- **Small mobile team** (emergency, assessment etc..)



The AGM (Absorbent Glass Mat) Battery type is approved for air transport, without special packing.  
All in one backpack of **12 kgs in total**

## Content

- ✓ Central unit (integrates battery, solar regulator, inverter and ports/sockets)
- ✓ 2x solar panels foldable 20W + separated cable (SP > Input port of main unit)
- ✓ 3x cables multi format connectors (USB)
- ✓ 1x module USB / car charger connectors
- ✓ 1x USB Hub 8 ports
- ✓ 1x backpack (with protective foams) and padlock

## Specifications

### General:

Total net weight, packed with bag and ready for deployment: **12 kgs**

Total packed weight with all original packaging: 15 kgs

All items are delivered separately in their original box (packed weight)

Indicative price: **880.00 CHF**

### Battery (main unit):

Type: AGM Lead-Acid

Energy / capacity: **150Wh / 14Ah (12V)**

Shelf-life: Keep plugged in, or charge every 3-6 months

Fuses: 20A, user replaceable fuse

Size main unit: 19.7 x 14.6 x 17.2 cm

Weight main unit: 5.4 Kgs

### Solar panels:

**40W** (2 x 20W) / 18-22V per panel (Open Circuit Voltage)

Monocrystalline and chainable

Built-in USB port 2A (charge directly from panel)

Size per panel: 77.5 x 33 x 2.5 cm (folded) / 21.6 x 33 x 2.5 cm (unfolded)

Weight per panel: 1.1 Kgs

### Ports on main unit:

2x USB ports (output): 5V, up to 2.1A (10W max), regulated

6mm port (output, green, hexagon): 12V, up to 10A (120W max), regulated

12V car port (output): 12V, up to 10A (120W max)

AC universal socket (output, 50Hz): 220V, 0.4A (80W continuous, 160W surge max)

Charging port (input, 8mm, blue, circle): 14-29V, up to 5A (60W max) or 220VAC with AC wall charger

### Additional Ports (accessories):

Module with output: 2x Car sockets 12V and 2x USB ports 5V - input: 12V car socket of main unit

3x set of cables with output: 10 type of connectors for mobile phones - input: USB port 5V

USB charging Hub with output: 8 USB ports 5V/2A - input: 220V AC (main unit or domestic power)

### Estimated charging times:

AC Wall Charger (45W): 6 hours

Car Charger (30W): 8 hours

Solar Panels (40W): 8 - 17 Hours