

Solar central unit with network injection and isolated site



ref. SOL-1 electrical cabinet + 2 photovoltaic solar panels + 1 link cable

SOL-1 is a standard compliant solar central unit, comprising an electrical cabinet (with its protection and metering components), 2 photovoltaic solar panels with power 2 x 200Wc on tilting frame and 30-m link cable.

PARTIAL OR TOTAL RESALE OPERATION

In the cabinet a DC/AC inverter converts the DC from the photovoltaic panels to AC 220VAC 50Hz, and injects its power in synchronism into the network through an isolation transformer. This inverter is protected against any polarity reversal and any overload on the DC or AC side. When the panels are not lit, the inverter consumes no current.

INVERTER	VOLTAGE	Max current	Power
INPUT	65~125VDC	8A	
OUTPUT	230VAC-50Hz	2,25A	525VA

OPERATION IN ISOLATED SITE WITH NO RESALE

The photovoltaic current charges two 12V sealed batteries cabled in series through a charging controller. This DC voltage is used directly by low energy consumption lamps 24VDC, and/or converted to 250VAC 50Hz by a 200W voltage converter.

Technical characteristics for the isolated site converter

VOLTAGE CONVERTER	Voltage	Max Current	Power
INPUT	20~32 VDC	11A	210W
OUTPUT	230VAC 50Hz	1A	200VA

1. ELECTRICAL CABINET

Technical cabinet of standardized solar central unit on wheeled frame.

Dimensions: 810 x 600 x 1890mm

COMPRISES

- 2 disconnectors
- 1 500mA -30A differential
- 1 30mA differential
- 1 lightning arrester + fuses
- 3 100 Wh resolution meters
- 1 Mushroom head emergency stop
- 1 source inverter
- 1 charging controller 12/24VDC-20A
- 1 4-20mA interface for the wind speed/Solar irradiation/Temperature sensors
- 2 batteries 12V-12Ah
- 1 set of photovoltaic connectors
- 1 500W inverter for network synchronisation
- 1 Voltage converter 24VDC/230VAC-200W

2. LINK CABLE

30-m cable for connecting the solar panels to any type of solar system.

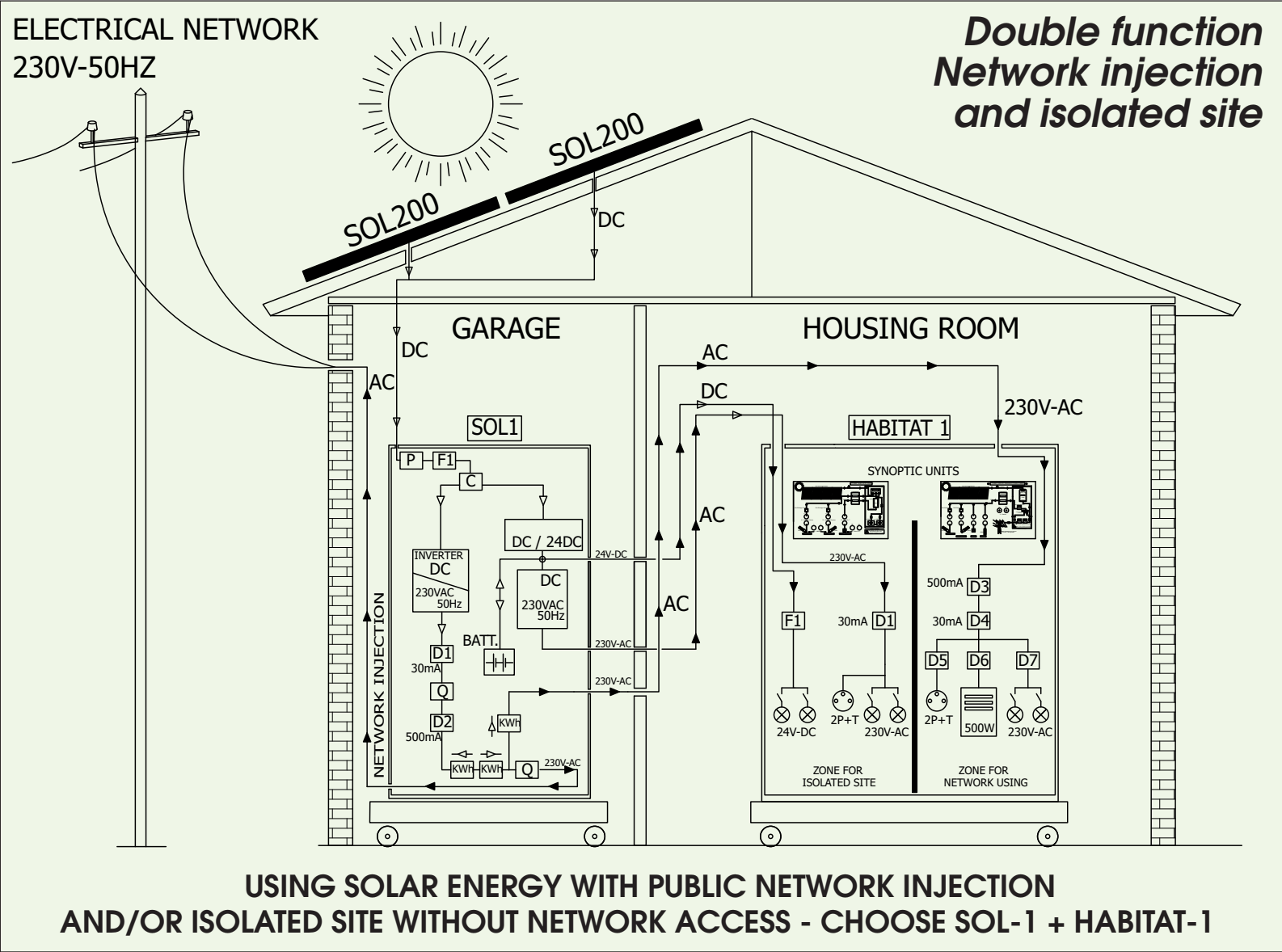
3. PHOTOVOLTAIC SOLAR PANEL 200WC ON TILTING FRAME

- Open circuit voltage: 57V DC
- Short-circuit current: 4.8A
- Optimum operating voltage: 46V DC
- Optimum operating current: 4.3A
- Maximum power: 200Wc (variation of ± 10% depending on the series)
- Sealed connections IP65 – 1000V on the rear of the panel.
- Type of cells: Monocrystalline silicon
- Robust aluminium frame.
- Useful surface area of the cells 1.5m².
- Output 47VDC – 4.2A – 200Wc per panel on 2 photovoltaic terminals.
- Device for measuring the tilt angle
- Tilt adjustable from 5° to 70°
- Two ball joints with clamping levers for positioning the panel to the required tilt angle.
- Light and easy to move.

Dimensions:

Folded position: 1620 x 1060 x 100mm

Unfolded to 70° position: 2100 x 1060 x 700mm



RECOMMENDED OPTION LOADING PANEL
FOR ISOLATED SITE USE



SEE REF. HABITAT-1

RECOMMENDED OPTION INDOOR
ARTIFICIAL SOLAR SOURCE QTE 2.



SEE REF. SOL-ARTI

Solar central unit with network injection



1. ELECTRICAL CABINET

Technical cabinet of standardized solar central unit on wheeled frame.
Dimensions: 810 x 600 x 1890mm

COMPRISES

- 2 disconnectors
- 1 500mA -30A differential
- 1 30mA differential
- 1 lightning arrester + fuses
- 3 100 Wh resolution meters
- 1 set of photovoltaic connectors
- 1 500W inverter for network synchronisation

2. LINK CABLE

30-m cable for connecting the solar panels to any type of solar system.

3. PHOTOVOLTAIC SOLAR PANEL 200WC ON TILTING FRAME

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- Sealed connections IP65 – 1000V on the rear of the panel.
- Type of cells: Monocrystalline silicon
- Robust aluminium frame.
- Useful surface area of the cells 1.5m².
- Output 47VDC – 4.2A – 200Wc per panel on 2 photovoltaic terminals.
- Device for measuring the tilt angle
- Tilt adjustable from 5° to 70°
- Two ball joints with clamping levers for positioning the panel to the required tilt angle.
- Light and easy to move.

Dimensions:
Folded position: 1620 x 1060 x 100mm
Unfolded to 70° position: 2100 x 1060 x 700mm



ref. SOL-2 electrical cabinet + 2 photovoltaic solar panels + 1 link cable

IN THIS VERSION, ZONE **A** OF THE CABINET REMAINS BLANK.

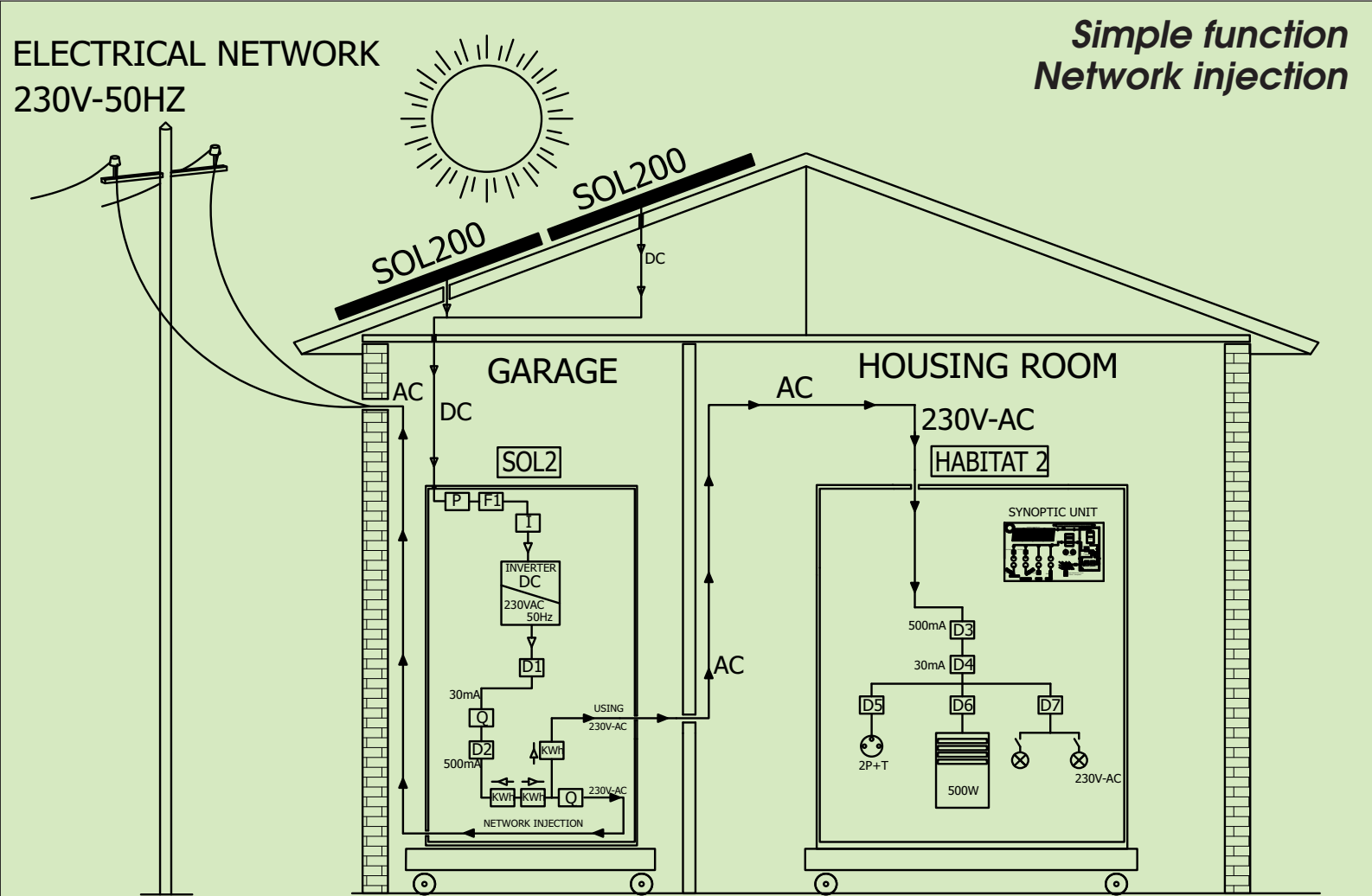
SOL-2 is a standard compliant solar central unit, comprising an electrical cabinet (with its protection and metering components), 2 photovoltaic solar panels with power 2 x 200Wc on tilting frame and 30-m link cable.

PARTIAL OR TOTAL RESALE OPERATION

In the cabinet a DC/AC inverter converts the DC from the photovoltaic panels to AC 220VAC 50Hz, and injects its power in synchronism into the network through an isolation transformer. This inverter is protected against any polarity reversal and any overload on the DC or AC side. When the panels are not lit, the inverter consumes no current.

Technical characteristic for the inverter coupled to the public network.

INVERTER	VOLTAGE	Max current	Power
INPUT	65~125VDC	8A	
OUTPUT	230VAC-50Hz	2,25A	525VA



USING SOLAR ENERGY WITH PUBLIC NETWORK INJECTION
CHOOSE SOL-2 + HABITAT-2



Solar central unit for isolated site



ref. SOL-3 electrical cabinet + 2 photovoltaic solar panels + 1 link cable

IN THIS VERSION, ZONE **B** OF THE CABINET REMAINS BLANK.

SOL-3 is a standard compliant solar central unit, comprising an electrical cabinet (with its protection and metering components), 2 photovoltaic solar panels with power 2 x 200Wc on tilting frame and 30-m link cable.

OPERATION IN ISOLATED SITE WITH NO RESALE

The photovoltaic current charges two 12V sealed batteries cabled in series through a charging controller. This DC voltage is used directly by low energy consumption lamps 24VDC, and/or converted to 250VAC 50Hz by a 200W voltage converter.

Technical characteristics for the isolated site converter

VOLTAGE CONVERTER	Voltage	Max Current	Power
INPUT	20~32 VDC	11A	210W
OUTPUT	230VAC 50Hz	1A	200VA

1. ELECTRICAL CABINET

Technical cabinet of standardized solar central unit on wheeled frame.
Dimensions: 810 x 600 x 1890mm

COMPRISES

- 2 disconnectors
- 1 lightning arrester + fuses
- 1 Mushroom head emergency stop
- 1 charging controller 12/24VDC-20A
- 2 batteries 12V-12Ah
- 1 set of photovoltaic connectors
- 1 Voltage converter 24VDC/230VAC-200W

2. LINK CABLE

30-m cable for connecting the solar panels to any type of solar system.

3. PHOTOVOLTAIC SOLAR PANEL 200WC ON TILTING FRAME

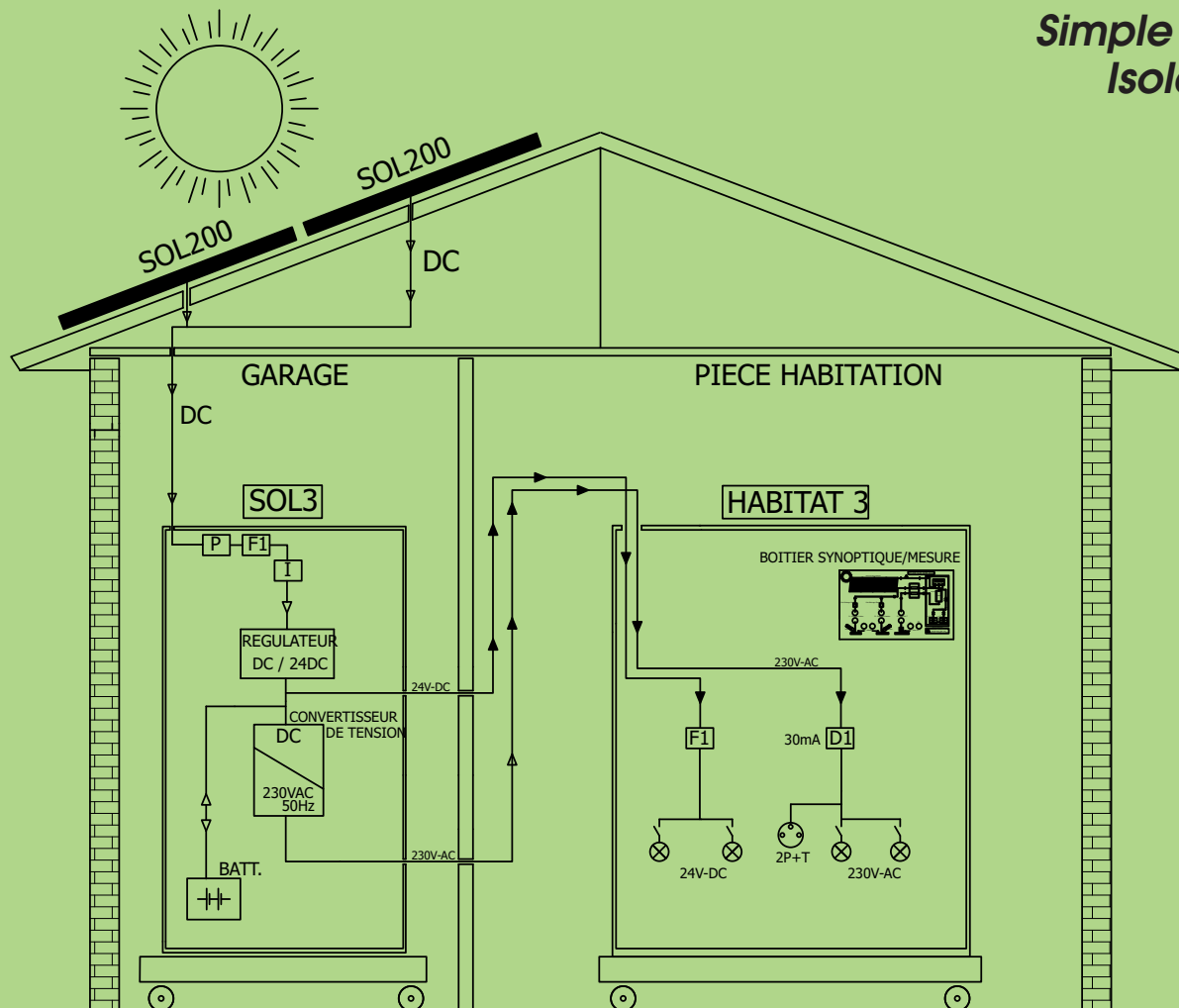
- Open circuit voltage: 57V DC
- Short-circuit current: 4.8A
- Optimum operating voltage: 46V DC
- Optimum operating current: 4.3A
- Maximum power: 200Wc (variation of ± 10% depending on the series)
- Sealed connections IP65 – 1000V on the rear of the panel.
- Type of cells: Monocrystalline silicon
- Robust aluminium frame.
- Useful surface area of the cells 1.5m².
- Output 47VDC – 4.2A – 200Wc per panel on 2 photovoltaic terminals.
- Device for measuring the tilt angle
- Tilt adjustable from 5° to 70°
- Two ball joints with clamping levers for positioning the panel to the required tilt angle.
- Light and easy to move.

Dimensions:

Folded position: 1620 x 1060 x 100mm

Unfolded to 70° position: 2100 x 1060 x 700mm

*Simple function
Isolated site*



**USING SOLAR ENERGY ON AN ISOLATED SITE
WITHOUT PUBLIC NETWORK ACCESS - CHOOSE SOL-3 + HABITAT-3**



**LOADING ZONE
FOR ISOLATED SITE USE**



SEE REF. HABITAT-3

**RECOMMENDED OPTION INDOOR
ARTIFICIAL SOLAR SOURCE QTE 2.**



SEE REF. SOL-ARTI