

SIGNUX PAN01

Accessories



SX-PAN01



DESCRIPTION

Foldable solar kit with battery and pole bracket, to power field equipment where there is no mains supply. Three sizes, 12 V output, IP67 and status readout over RS485.

The PAN01 is a solar kit with a built-in battery, meant to power a piece of field equipment where the mains does not reach. It arrives as one assembly — panel, battery, electronics and bracket — and is unfolded and clamped to a pole.

The battery carries auxiliary heating that draws its current from the panel rather than from the reserve, so it works in the cold without spending autonomy on warming itself. The state of charge is worked out by an algorithm that recalibrates itself according to how the panel has been charging, and the whole unit is read over RS485.

It clamps to a vertical pole with two U bolts: no civil works, no trench and one person. When one kit does not cover the load, several can be put in parallel on the same equipment.

FEATURES

- 60, 80 or 100 W with 30, 40 or 50 Ah: Three sizes. Output of 9 to 12.6 V at 10 A, 90 % discharge depth, and 24, 36 or 48 V customised at 95 % efficiency.
- -30 to 60 °C: Charges at -20 °C and discharges at -30 °C, keeping 95 % of its discharge in the cold thanks to the auxiliary heating.
- IP67, and a panel for over 25 years: Class A monocrystalline at 21.6 % efficiency, on an SGCC galvanised steel and polycarbonate resin bracket.
- Up to 8 kits in parallel: On the same equipment, when one alone does not cover the load. Status is read over RS485.

AT A GLANCE

Output voltage	9 to 12.6 V
Maximum output current	10 A
Protection	IP67
Operating	-30 to 60 °C

PART NUMBERS

PART NUMBER	POWER
SX-PAN01-30	60 W
SX-PAN01-40	80 W
SX-PAN01-50	100 W

GENERAL

Type	Solar kit with battery and bracket	
Output	RS485	Modbus RTU at 9600 and address 1. The register map is in the manual.
Mounting	On a vertical pole, 80 to 114 mm	Two U bolts, no civil works
Expansion	Up to 8 kits in parallel	On the same equipment

SOLAR PANEL

Power	60 · 80 · 100 W	Depending on the model
Voltage	18 V	
Material	Class A monocrystalline silicon	
Efficiency	21.6 %	
Service life	Over 25 years	

BATTERY AND OUTPUT

Capacity	30 · 40 · 50 Ah	Depending on the model
Operating voltage	9 to 12.4 V	
Output voltage	9 to 12.6 V	
Maximum output current	10 A	
Customised output voltage	24 · 36 · 48 V	At 95 % efficiency
Discharge depth	90 %	
Output cable length	1.5 m	

OPERATING CONDITIONS

Operating temperature	-30 to 60 °C	
Charging in the cold	Down to -20 °C	
Discharging in the cold	Down to -30 °C	Keeps 95 % of its discharge
Protection grade	IP67	

CONSTRUCTION

Dimensions	580 × 480 × 70 · 765 × 480 × 70 · 765 × 630 × 70 mm	Depending on the model
Weight	6.5 · 10.5 · 11.5 kg	Depending on the model
Bracket material	SGCC galvanised steel and polycarbonate resin	
In the box	Kit with bracket, 2 U bolts, 2 fastening plates, DC cable, hex wrench, 6 M6 screws, 4 nuts, 4 washers, 4 spring washers and installation guide	