

# SolarMini Console for 10W and 20W Solar Panels



## Installation Manual

<http://www.solar-ups.eu>

Warranty	Stamp
Date:	
Distributor:	
Serial Number:	

The warranty refers only to undamaged devices operated under the specified conditions of use!

Ver: V1R1

2018. february 1.

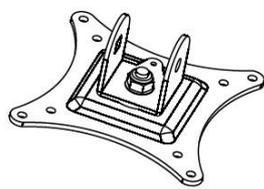


The SolarMini solar panel holder console has been basically designed for a 10W and 20W capacity solar panels, but it can be used for the majority of solar panels with similar performance. The console is available in two kinds of packages, the basic package includes the plate dimensioned for 10W solar panel and the larger one contains the additional plates needed for 20W solar panels, together with the required extra screws. The parts of the console consist of galvanized and powder painted steel plates of 2mm thickness, developed for outdoor use. The total weight is 1.8-2.1 kg. The arm profile allows for 3-directional movement for adjusting the position of the solar panel (decision, lateral motion, rotation). The console basically consists of 3 parts, besides the attached screws needed for assembling, namely:

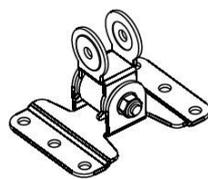
- Base plate to be attached to the solar panel (1 pc), and the additional plates (for 20W panel, 2 pcs).
- Solar panel side of the arm profile (1 pc)
- Wall/pillar side of the arm profile (1 pc)

**The way of assembling:**

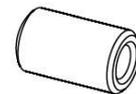
Required parts besides the baseplate and the additional plate:



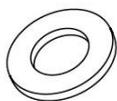
(1) Solar Bracket-a



(1) Wall plate-b



(1) Metal Tube-c



(1) M8 Washer-d



(1) M8 Lock Washer-e

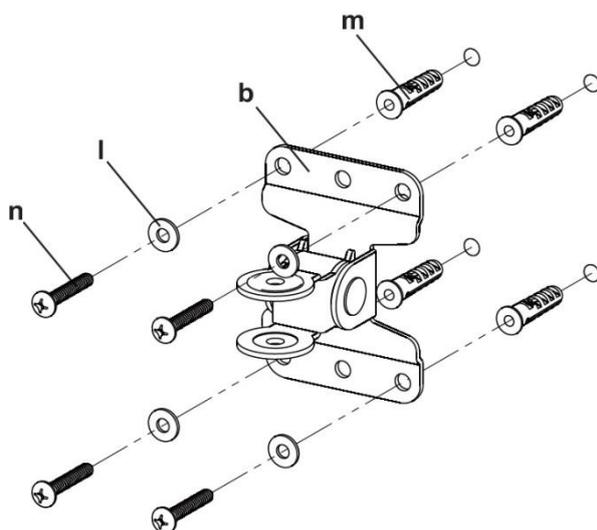


(1) M8 Bolt-f

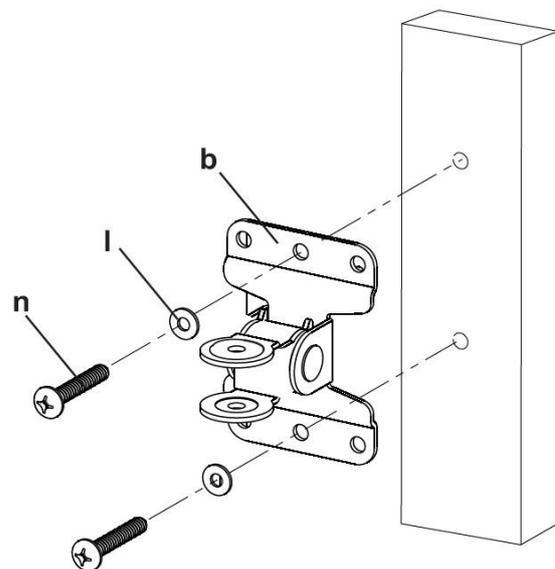


(1) Nut-g

1. Wall/pillar side of the arm profile must be fixed to the wall/pillar (marked b). The supplied screws should be used for this (marked n, l and m), assembled with a cross-head screwdriver.



Wall, concrete pillar



Wooden pillar

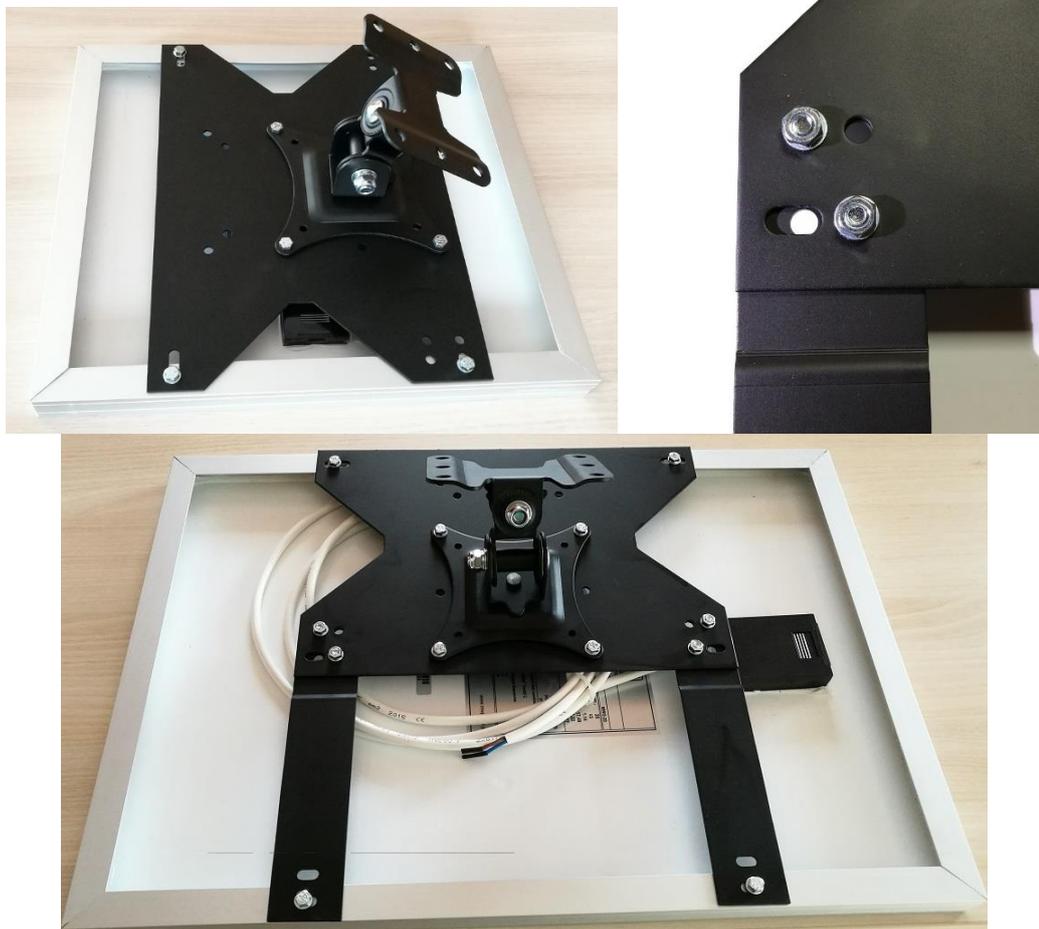
2. The solar panel side (marked a) must be assembled to the baseplate in the required position. Fixing should be reasonably done with the attached M5 screws (key size 8) washers and nuts (4 fixing points). The bores are made on the baseplate so that the arm profile could be assembled in two positions, as required. The fixing plate can be turned on the arm profile, so it is indifferent in which direction is it fixed to the basic plate. Two possible positions:



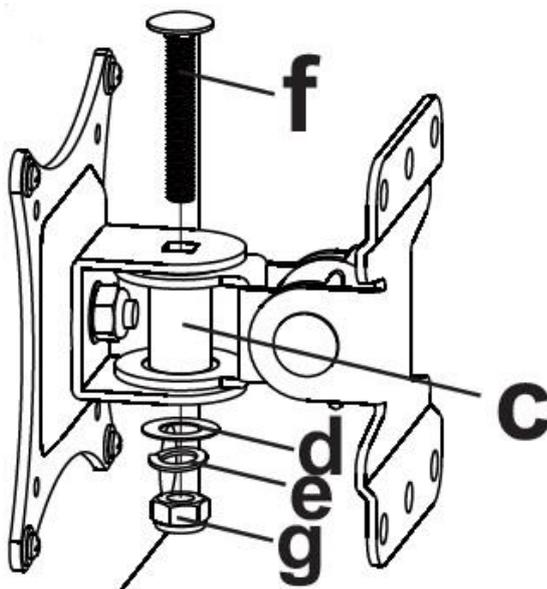
*Center position*

*Edge position*

3. The baseplate should be reasonably fixed to the solar panel with the attached M5 screws (key size 8) washers and nuts (4 fixing points). In case of assembling to the 20W solar panel, then first the additional plates have to be assembled to the baseplate (2-2 pcs, with M5 screws of key size 8) as follows:



4. The two sides of the arm profile must be assembled with the attached screws (marked f, d, e and g) and metal spacer (marked c). Key of size 13 is needed for assembling. It is mandatory to assemble the metal spacer into the arm profile, because lacking this the profile will be loose.



5. After correct adjustment of the position of the solar panel, the two pieces of nuts - key size 13 - on the arm profile must be fixed tight. Keeping of the position of the solar panel be checked. The console does not need any maintenance in later.

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SolarUPS Version	SolarUPS V1 PCB	SolarUPS V2	SolarUPS V3 PCB 5V	SolarUPS V3 PCB 12V
Recommended Solar Panel	10W	10W	20W	20W
Battery Type, Capacity	Li-ion, 8800mAh	Li-ion, 8800mAh	5-12Ah 12V SLA Gel (not incl.)	5-12Ah SLA Gel (not incl.)
Battery Lifetime	>3000 cycle (max 80% DOD)	>3000 cycle (max 80% DOD)	-	-
DC Output Voltage	3,3V or 5V (selectable)	3,3V or 5V (selectable)	5V	12V
DC Output Current Max	500mA	500mA	2500mA	2000mA
Temperature (Charge)	-10 ... +60 °C	-10 ... +60 °C	-40 ... +70 °C (only PCB)	-40 ... +70 °C (only PCB)
Temperature (Discharge)	-40 ... +60 °C	-40 ... +60 °C	-40 ... +70 °C (only PCB)	-40 ... +70 °C (only PCB)
Device Size	110 (w) * 95 (d) * 28 (h) mm	110 (d) * 75 (h) * 45 (w) mm	80 (w) * 50 (h) * 15 (d) mm	80 (w) * 50 (h) * 15 (d) mm
Device Weight	300g	320g	200g	200g
Device Formation	Add-On Board PCB (with batt.)	DIN rail (35mm) with snap lock	Add-On Board PCB	Add-On Board PCB
Optionals	IP67 Housing (Fibox Euronord)	-	-	-
Price (excl VAT)	69 EUR	69 EUR	69 EUR	69 EUR

SolarUPS Version	SolarUPS V3 SLA 5V	SolarUPS V3 SLA 12V	SolarUPS V3 Li 5V	SolarUPS V3 Li 12V
Recommended Solar Panel	20W	20W	20W	20W
Battery Type, Capacity	SLA Gel, 9000mAh	SLA Gel, 9000mAh	Li-ion, 9000mAh	Li-ion, 9000mAh
Battery Lifetime	>600 cycle (max 50% DOD)	>600 cycle (max 50% DOD)	>1000 cycle (max 50% DOD)	>1000 cycle (max 50% DOD)
DC Output Voltage	5V	12V	5V	12V
DC Output Current Max	2500mA	2000mA	2500mA	2000mA
Temperature (Charge)	-10 ... +50 °C	-10 ... +50 °C	-10 ... +50 °C	-10 ... +50 °C
Temperature (Discharge)	-20 ... +50 °C	-20 ... +50 °C	-20 ... +70 °C	-20 ... +70 °C
Device Size	192 (w) * 164 (h) * 87 (d) mm	192 (w) * 164 (h) * 87 (d) mm	160 (w) * 80 (h) * 85 (d) mm	160 (w) * 80 (h) * 85 (d) mm
Device Weight	3100g	3100g	1100g	1100g
Device Formation	IP66 Housing	IP66 Housing	IP65 Housing	IP65 Housing
Price (excl VAT)	99 EUR	99 EUR	129 EUR	129 EUR

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