

Installation manual for combiner box jS1

Warning:

! Do not open combiner cover, it will cause the water seal failure.





! When photovoltaic array is exposed to light, it supplies a d.c. voltage to the combiner box.

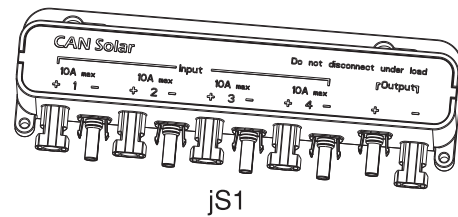
! Do not disconnect input leads under load.

! Clean the exterior of the unit periodically with a damp cloth to prevent combiner from accumulation of dust and dirt, keep warranty label intact anyhow.

Mounting way: Wall mounting or vertical mounting.

Symbol:

-  Frame or chassis terminal
-  Refer to the operating instructions
-  Equipment protected throughout by double insulation or reinforced insulation
-  Caution, risk of electric shock

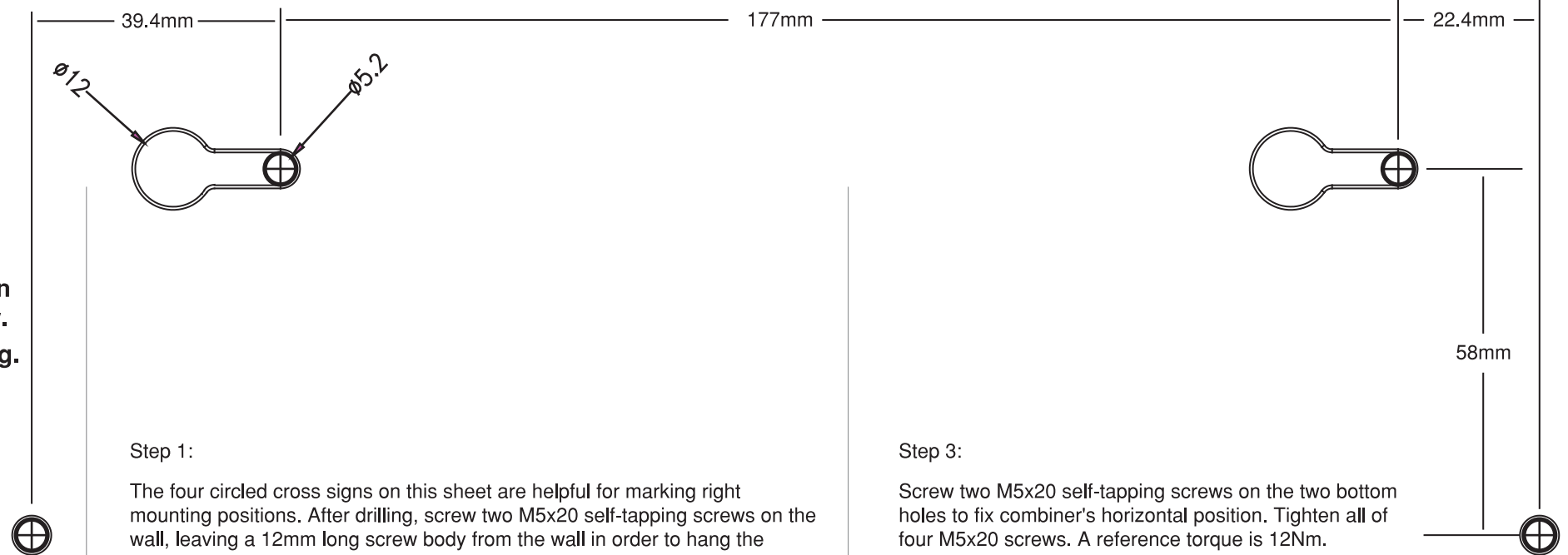


Electrical Data and Safety

Max. Rated Input Current	10A DC per set (Pos. & Neg.)
Contact Pin Resistance	≤ 0.5mΩ
Max. Rated Output Current	30A DC (Pos. & Neg.)
Max. Rated Voltage	1000Vdc (TUV), 600Vdc (UL)
Flame Class	UL94v-0
Protection Degree / Protective Class	IP65 / Class II
Pollution Degree	PD3
Over Voltage Category	II
Max. Altitude Rating	2000 meters
Operation Humidity	4% to 100%
Operation Temperature	-25 °C to +50 °C
Max. External Fuse	16A 1000Vdc (TUV), 600Vdc (UL)

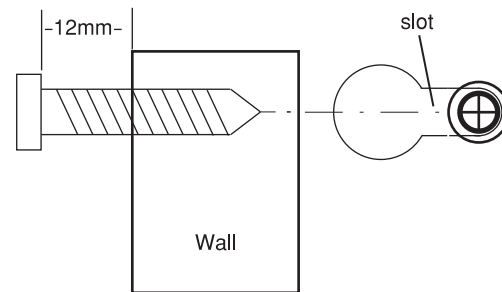
Mechanical Data

Housing	PPO
Sets of Input	4 sets
Input and Output Connectors	φ4.0mm lathing pins, Tin plated brass
Solar Cable Cross Section	4mm ² (1000Vdc) / 12 AWG (600Vdc)
Body Dimension (mm)	250(W) x 87(D) x 55(H)
Net Weight (g)	411



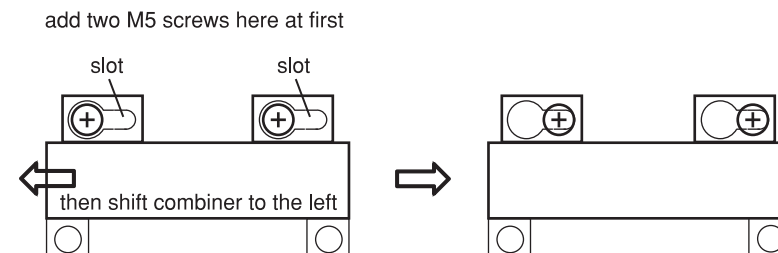
Step 1:

The four circled cross signs on this sheet are helpful for marking right mounting positions. After drilling, screw two M5x20 self-tapping screws on the wall, leaving a 12mm long screw body from the wall in order to hang the combiner box.



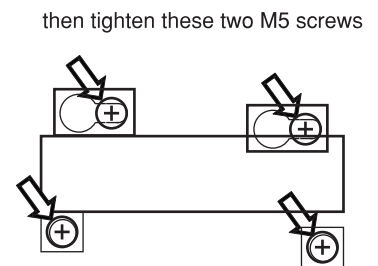
Step 2:

Hang the combiner box on the two M5x20 screws, shift it to the left and position the screws on the slots.



Step 3:

Screw two M5x20 self-tapping screws on the two bottom holes to fix combiner's horizontal position. Tighten all of four M5x20 screws. A reference torque is 12Nm.



add two M5 screws here at first

Step 4:

Plug string cables which with MC4* compliant Solar connectors to each input leads of combiner. The DC continuous current of each input set MUST NOT exceed 10A continuously. Total continuous input current MUST NOT exceed 30A.

Step 5:

Plug output cable which with MC4* compliant Solar connectors to output leads of combiner.

* MC4 is a brand name of Multi-Contact AG



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www.cansolarenergy.com Tel: +1 (604) 800-3806