# SUN2000P-375 W Smart PV Optimizer Quick Guide

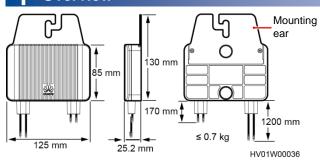
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### 1 Overview

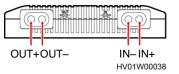


### **Model Naming Conventions**

#### SUN2000P-375 W

- SUN2000P: smart PV optimizer
- 375 W: maximum input power375 W

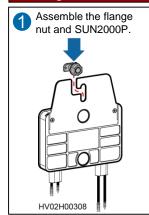
### **Port Definition**

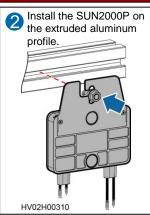


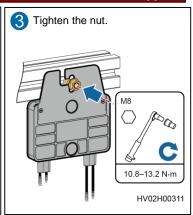
# 2 Installing the SUN2000P

Secure the SUN2000P to a PV module support or PV module frame. The fittings required depend on the installation position.

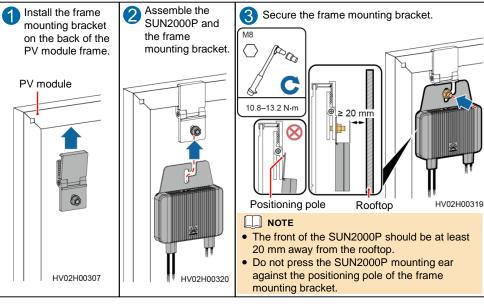
### Installing the SUN2000P on the Extruded Aluminum Profile of a PV Module Support

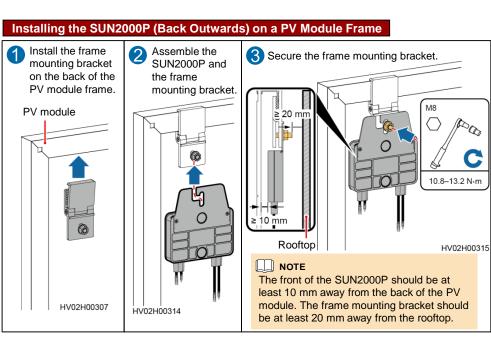




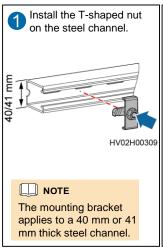


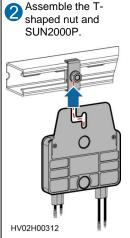
### Installing the SUN2000P (Front Outwards) on a PV Module Frame

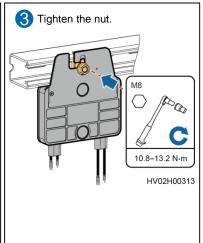




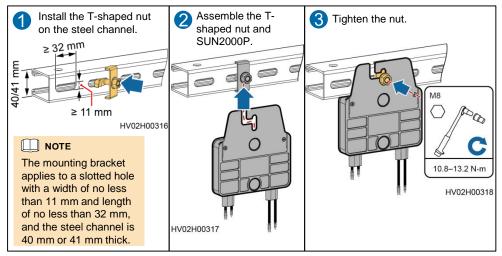
# Installing the SUN2000P on the Steel Channel of a PV Module Support (Through a Slot)







# Installing the SUN2000P on the Steel Channel of a PV Module Support (Through a Hole)



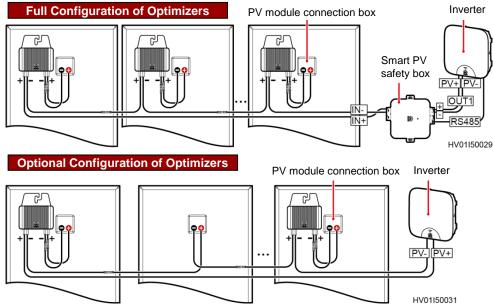
## Installing the SUN2000P Cable



- Install SUN2000P cables as shown in the following figure. Failing to do so may damage the SUN2000P or PV module.
- If a SUN2000P does not connect to any other device, connect the OUT+ and OUT- ports of the SUN2000P respectively to the IN+ and IN- ports to protect the terminals from water.

#### MOTE

- The SUN2000Ps in the same PV string can be installed in various orientations and tilts, and on various types of PV modules. The following figure shows how SUN2000Ps are installed on the same side of PV module frames.
- A SUN2000P should be less than 0.8 meter away from the connection box, and less than 2 meters away from the next SUN2000P.
- A SUN2000P should be 1–350 meters away from the inverter.
- 1. Connect the IN+ port and IN- port on the first SUN2000P respectively to the positive and negative wiring terminals in the PV module connection box.
- 2. Connect the OUT- port on the first SUN2000P to the OUT+ port on the next SUN2000P.
- 3. Connect other SUN2000P cables in turn by following steps 1 and 2.
- 4. Connect the OUT- port on the last SUN2000P to the IN- port on the smart PV safety box or the PV- port on the inverter.
- 5. Connect the OUT+ port on the first SUN2000P to the IN+ port on the smart PV safety box or the PV+ port on the inverter.



### MOTE

It is recommended that positive and negative cables (IN+/IN- or PV+/PV-) between the SUN2000P and the smart PV safety box or inverter be pulled straight, placed in parallel, and do not tangle.

### 4. Verifying the Installation

- 1. Check that all mounting brackets are securely installed and all screws are tightened.
- 2. Check that all cables are reliably connected with correct polarity and no short circuit.

### 5 Powering On the System

For details, see the description about inverter power-on.

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