

CleanEdge

Module - 200W

SPECIFICATION INSTALLATION MANUAL

- Power Generation  **15%** (max)
- Reduce Maintenance Costs

**NO WATER
NO DUST**



About Gstar

Founded in 2019, GSTAR is a technology-based enterprise specializing in photovoltaic power generation solutions, realizing vertically integrated R&D, production and sales from silicon wafers, cells to modules, and is a one-stop supplier of new mainstream photovoltaic products in the world.

Presently, the company's primary products include 182/210mm large-sized silicon wafers, PV cells, high-efficiency monocrystalline PERC, TOPCon, HJT, HPBC photovoltaic modules, and BIPV photovoltaic building integration, etc. Our products are sold to Europe, America, Asia, Africa and other countries.

Adhering to the globalization layout, the company has formed a strategic layout of "one headquarters and six centers", covering six countries and territories: Singapore, the United States, Taiwan, China, Thailand, Indonesia, and Laos. The production base in Southeast Asia is becoming increasingly complete—The PV cells factory in Thailand is about to be put into operation, the construction of the silicon ingot slicing factory in Indonesia, the construction project of the aluminum frame factory and PV modules factory in Laos have begun. GSTAR will realize the significant transformation of a GW-class manufacturing supplier overseas in 2024. Projected capacities for 2024 are 3GW for ingot, 3GW for silicon wafers, 3GW for photovoltaic cells, 12GW for aluminum frames, and 3GW for PV modules.

1500+

Global Staff

6 Major

Production Bases

6 Major

Global Service Centers

5 Years+

Experience In The Field Of Photovoltaic
Power Generation

24 GW+

Annual Production Capacity
(Projected To 2024)



Specification

Module Type: **GSP7F28M-200BB**

PV Module Maximum Power(Pmax) :	200 W
Pmax,Voc,Isc Production Tolerance:	±3%
Voltage at Open-Circuit(Voc) :	28.1V
Current at Short-Circuit(Isc) :	9.12A
Operating Voltage(Vmp) :	23.4V
Operating Current(Imp) :	8.55A
Max Series Fuse Rating :	15A
Max System Voltage:	600VDC(UL)
Nominal Operating Temperature:	45±2 C
PV module Classification:	Class II
Fire type:	Type 1
Weight:	11.3kg / 24.9 lbs
Dimensionsn	1365 x 770 x 30 mm / 53.7 x 30.3 x 1.2 in

All technical data at STC,Irradiance 1000 W/ m²,T=25 C,AM=1.5

WARNING: Only qualified personnel should install or perform maintenance work on these modules.

Be aware of dangerous high DC voltage when connecting modules.
Do not damage or scratch the rear surface of the module.



Installation Guide

① Z Brackets Mounting



③ Adjustable Tilt Brackets Mounting



② ABS Brackets Mounting

ABS Bracket for Solar Panels Dimension

EASY TO INSTALL AND REMOVE
Panels can be removed easily without removing the mount.

Suitable for install on the flat of roof

OPTION ONE:

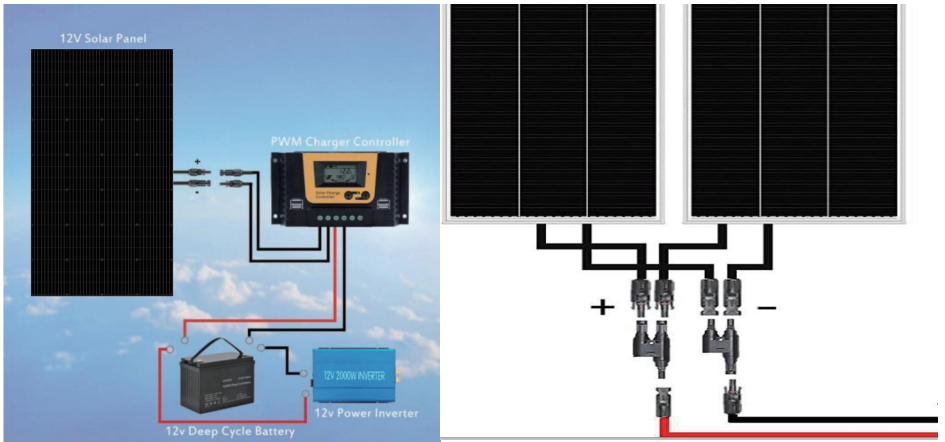
Drill self-tapping screws through ABS bracket and into solar panel frame, then use sealant to fix the bracket on the roof.

OPTION TWO:

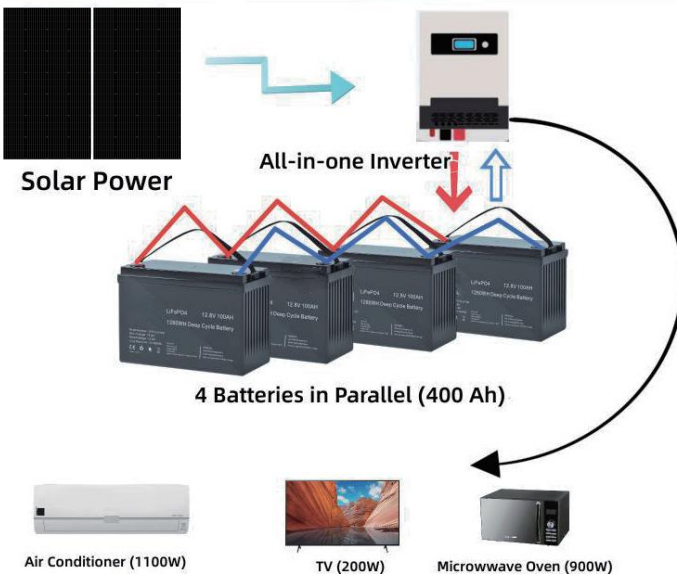
Drill first, directly bond with sealant, easier, more flexible.

Slot Design, non-slip, safer bonding.

Electrical Installation



Solar Power System Installation



Safety Precaution Measures

Solar modules produce electrical energy when light shines on their front surface. The DC voltage may exceed 30V. If modules are connected in series, the total voltage is equal to the sum of the individual module voltages. If modules are connected in parallel, the total current is equal to the sum of individual module currents.

- Completely cover the module with an opaque material during installation to keep electricity from being generated.
- Do not wear metallic rings, watchbands, ear, nose, lip rings or other metallic devices while installing or troubleshooting photovoltaic systems.
- Use only insulated tools that are approved for working on electrical installations.
- Abide with the safety regulations for all other components used in the system, including wiring and cables, connectors, charging regulators, inverters, storage batteries and rechargeable batteries, etc.
- Use only equipment, connectors, wiring and support frames suitable for use in solar electric systems. Always use the same type of module within a particular photovoltaic system.

Under normal outdoor conditions the module will produce current and voltages that are different than those listed in the data sheet. Data sheet values are values expected at standard test conditions.

Warranty Service

About Warranty Registration

Website: www.gstarsolar.com

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