Specifications: PS-15/PS-15M PS-30/PS-30M Nominal Battery Voltage 12/24 V 12/24 V 30/60 V 30/60 V Max. PV Open-Circuit Voltage Maximum Input Current 15 A 30 A Rated Load Current 15 A 30 A



Warning: Shock Hazard

Test between all terminals and ground before touching.

Power or accessory terminals are **NOT** electrically isolated from DC input and may be energized with hazardous solar voltage.

Operational Configuration:

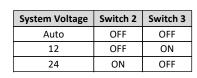
Switch 1: Load/Lighting

| Mode | Switch 1 | ON |
|----------|----------|-------|
| Normal | OFF | |
| Lighting | ON | 1 2 3 |
| | • | Na |

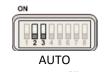








Switches 2 & 3: System Voltage





24 V

Switches 4, 5, & 6: Battery Type Selection

NOTE: The ProStar Gen3 can be programmed to accommodate a wide range of charging parameters. Consult the battery manufacturer for optimal battery charging settings.

To Change Settings:

- On metered models, use the interface on the meter or use the software available at https://www.morningstarcorp.com/msview/.
- On non-metered models, use the software available at https://www.morningstarcorp.com/msview/.

See the ProStar Installation, Operations, and Maintenance Manual for additional information/guidance.



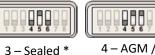
1 – Sealed



2 – Sealed















Flooded *

5 - Flooded

6 – Flooded

7 – L-16

Custom**

| DIP Switch Setting | | | Battery Type | Absorption Stage | Float Stage | Equalize Stage | Absorption Time | Equalize Time | Equalize Timeout | Equalize Interval | LVD | LVR |
|-----------------------|-----|-----|------------------|---------------------|----------------|-------------------|--------------------|------------------|---------------------|----------------------|---------|--------|
| 4 | 5 | 6 | | (Volts) | (Volts) | (Volts) | (Minutes) | (Minutes) | (Minutes) | (days) | (Volts) | Volts) |
| OFF | OFF | OFF | 1 – Sealed* | 14.00 | 13.50 | | 150 | | | | 11.5 | 12.6 |
| OFF | OFF | ON | 2 – Sealed* | 14.15 | 13.50 | 14.40 | 150 | 60 | 120 | 28 | 11.5 | 12.6 |
| OFF | ON | OFF | 3 – Sealed* | 14.30 | 13.50 | 14.60 | 150 | 60 | 120 | 28 | 11.5 | 12.6 |
| OFF | ON | ON | 4 – AGM/Flooded* | 14.40 | 13.50 | 15.10 | 180 | 120 | 180 | 28 | 11.5 | 12.6 |
| ON | OFF | OFF | 5 – Flooded | 14.60 | 13.50 | 15.30 | 180 | 120 | 180 | 28 | 11.5 | 12.6 |
| ON | OFF | ON | 6 – Flooded | 14.70 | 13.50 | 15.40 | 180 | 180 | 240 | 28 | 11.5 | 12.6 |
| ON | ON | OFF | 7 – L-16 | 15.40 | 13.40 | 16.00 | 180 | 180 | 240 | 14 | 11.5 | 12.6 |
| ON | ON | ON | 8 – Custom** | Custom | Custom | Custom | Custom | Custom | Custom | Custom | Custom | Custom |

^{*&}quot;Sealed" battery types include Gel and AGM Batteries

^{**}Lithium-ion and some other battery types require custom programming. Morningstar provides downloadable settings for selected battery manufacturers here: https://www.morningstarcorp.com/energy-storage-partner-program/

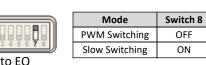
| Shared Settings | Set Point | Shared Settings | Set Point |
|------------------------------|-----------------------------|---------------------------------------|--------------------------------|
| | 55015 | | 33013111 |
| Absorption Extension Voltage | 12.50 Volts | Float Cancel Voltage | 12.10 Volts |
| Absorption Extension Time | Absorption Time +30 minutes | Equalize Time-Out | Equalize Time +60 minutes |
| Float Exit Time-Out | 30 minutes | Temperature Compensation Co-Efficient | -30 millivolts / °C / 12 Volts |

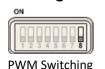
Switch 7: Battery Equalization

| Mode | Switch 7 |
|---------------------|----------|
| Manual Equalization | OFF |
| Auto-Equalization | ON |











Contact Information:

Technical Support: Support.morningstarcorp.com

Phone: 1-215-321-4457



Switch 8: Current Switching

OFF

ON





MORNINGSTAR

ProStar[™]

Solar Charging System Controller

Quick Start Guide

Max 12.17 V Min 12.16 V

Metered version shown.

Scan QR Code to go directly to the **ProStar Gen3 Installation Manual** and warranty information online.



Safety Information:

Warning: Shock Hazard

The ProStar Gen3 controller must be installed by a qualified technician in accordance with the electrical regulations of the country of installation.



Warning: Shock Hazard

This unit is not provided with a GFDI device. This charge controller must be used with an external GFDI device as required by the Article 690 of the National Electrical Code for the installation location.

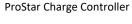


IMPORTANT: READ the ProStar Gen 3 Installation Manual for safety and regulatory information, instructions on configuration and operation, and warranty information.

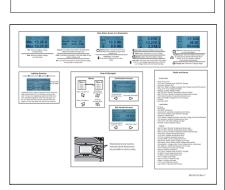
Warranty Registration: https://www.morningstarcorp.com/product-registration/

In the box:









Menu Map (2 pages)

Tools Required:

- #2 Philips Screwdriver

Optional Accessories









Adapter (UMC-1)



PV Ground Fault Protection

(GFPD-150V)

Ethernet MeterBus Converter (EMC-1)

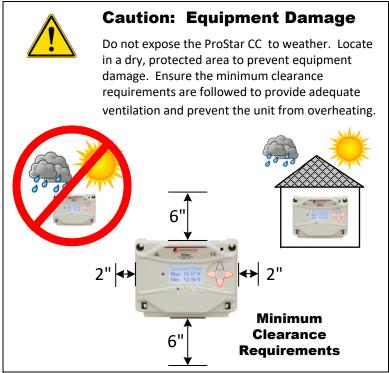


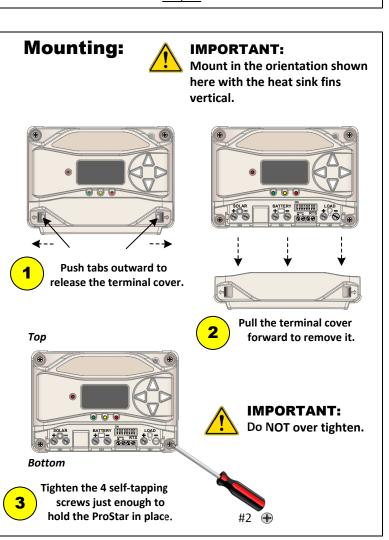
PC MeterBus Adapter (MSC)

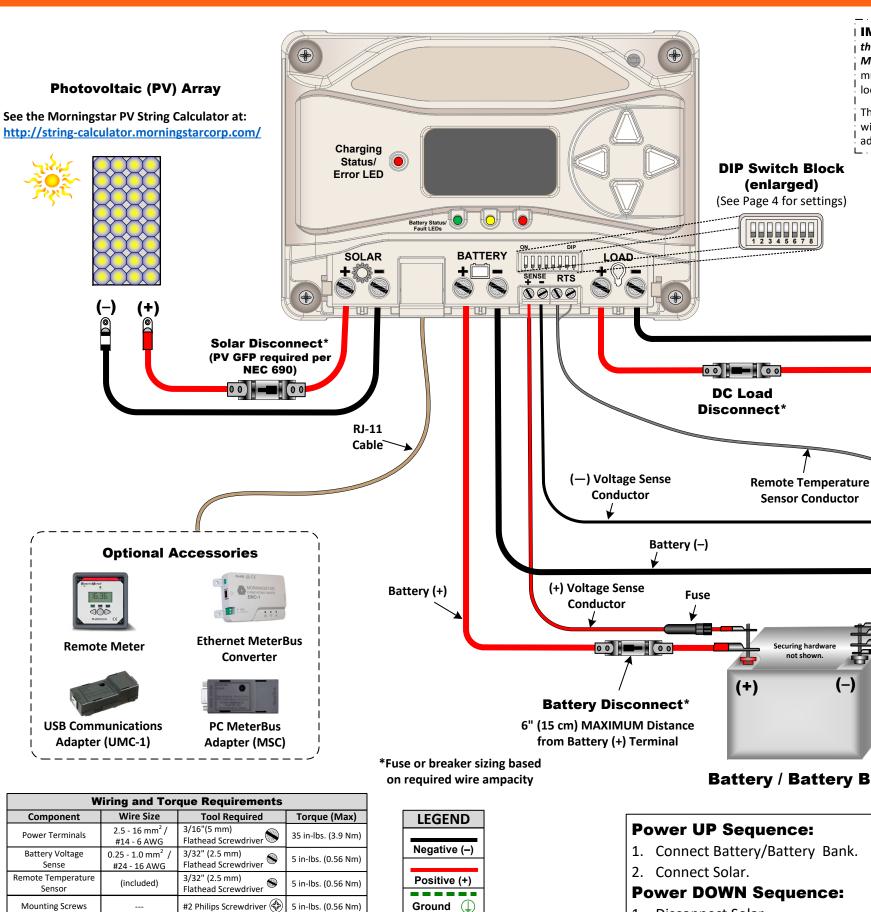
© 2022 Morningstar Corporation. All Rights Reserved. MS-001534 rev. D

ProStar Gen3 Charge Controller

Quick Start Guide







IMPORTANT: Example only. Actual wiring may vary. READ the ProStar Gen3 Installation, Operations, and Maintenance Manual for mandatory safety requirements. All configuration must comply with local and national electric codes. Consult your local electric authority to ensure compliance.

This illustration represents a typical off-grid installation. For use with an inverter, refer to the inverter's installation manual for additional information.

● ○ ● LED Indicators:

Residential

Communications

See the ProStar Gen3 Installation Manual for details.

DC Load(s)

Industrial

Security



(-)

Power DOWN Sequence:

- 1. Disconnect Solar.
- 2. Disconnect Battery/Battery Bank.

DC-to-Ground

Bond

IMPORTANT:

Ensure there is only 1 DC Negative-to-Ground Bond in the entire system.

Primary Ground

Electrode Conductor

(System Ground)