

GRID FOUNDRIES CUSTOMER USER'S GUIDE

Version 1 - August 2025

1. Introduction

This guide provides customers with technical specifications and operational guidelines for Grid Foundries solar modules and systems.

2. Product Overview

Grid Foundries offers OEM solar modules designed for utility-scale and commercial deployments. Products adhere to U.S. manufacturing standards and renewable energy compliance requirements.

3. Technical Specifications

The following table lists the maximum and minimum specifications for Grid Foundries solar module production:

Parameter	Minimum	Maximum	Notes
Height (mm)	2250	2300	Module outer dimension
Width (mm)	1120	1145	Module outer dimension
Frame Thickness (mm)	30	35	Aluminum alloy frame
Frame Rail Width (mm)	15	20	Tolerance based on extrusion
Bus Bars	10	16	Range of multi-busbar configurations
Cell Specification	Mono PERC ----	TOPCon	Technology options
Production Quantity (MW)	20	300+	Minimum and maximum order size

4. Installation Guidelines

Provide recommended installation procedures, mounting configurations, and safety precautions.

5. Maintenance & Safety

Outline periodic inspection requirements, cleaning instructions, and operational safety rules.

6. Occupational Health and Manufacturing Safety

Grid Foundries prioritizes employee and contractor safety throughout all phases of manufacturing and customer support operations. Personal protective equipment, lockout/tagout procedures, and OSHA/ISO 45001 standards are mandatory.

7. Compliance and Standards References

Grid Foundries adheres to internationally recognized safety and quality standards including ISO 9001:2015, ISO 45001:2018, OSHA 29 CFR 1910, NFPA 70 (NEC), IEC 61730, and UL 1703/61730.

In addition to compliance with these standards, Grid Foundries maintains a comprehensive Quality Management System (QMS). This QMS governs all aspects of manufacturing, from raw material intake through final product testing, ensuring that every solar module meets rigorous quality and reliability benchmarks. The QMS is fully aligned with ISO 9001 principles and subject to continuous internal review and improvement.

To further enhance traceability and consistency, Grid Foundries has implemented MQTT-based data collection across the entire manufacturing process. This system captures a robust dataset at every production step, enabling advanced analytics and full visibility for customers. By providing real-time access to process data, MQTT integration ensures consistency, transparency, and reliability in all delivered products.

8. Custom Engineering Support

Grid Foundries seeks to be your long-term manufacturing partner for solar manufacturing. By integrating closely with customer requirements. Our in-house manufacturing engineering services are included as part of every production engagement. Specialty engineering projects, including product customization, advanced testing, and integration support, are available on a quotation basis.

Through this approach, Grid Foundries ensures that each customer has both the reliability of standardized OEM module production and the flexibility to pursue specialized designs when required.

9. Sales and Ordering

Customers interested in placing an order may contact our sales support team at sales@gridfoundries.com. To ensure an efficient quotation and ordering process, the following minimum information is required:

Required Information	Customer Input (fill in)
Desired Module Type	_____
Cell Type/Layout	_____
Desired Wattage	_____
Desired Number of Bus Bars	_____
Desired Product Dimensions (if known)	_____
Desired Manufacturing Start Date	_____
Desired Order Delivery Frequency	_____
Desired Total Order Quantity	_____
Customer Will/Will Not Provide Designs and Materials	_____

Providing complete and accurate information at the time of inquiry helps Grid Foundries deliver timely quotations, optimize production scheduling, and ensure on-time delivery of high-quality solar modules.

Schedule Certainty is an important element for our customers. Please contact us to determine manufacturing and support availability.

10. Customer Support

For technical support, please contact Grid Foundries at support@gridfoundries.com.