

100kW 250kW Photovoltaic Inverter

EXCELLENT WORKMANSHIP

Mitsubishi Electric's 100kW and 250kW inverters are an ideal choice for large-scale PV installations. With superior craftsmanship, high-quality materials and the utmost attention to detail, our inverters are known for their high efficiency, ultra-reliable performance and innovative technology.

HIGH POWER OUTPUT

Our proprietary gradationally controlled Inverter technology is the first in the industry. The transformerless design eliminates losses associated with conventional inverter products. A wide MPPT voltage range and non-bipolar design provide flexibility in both design and performance.

SAFE, DURABLE AND EASY TO INSTALL

The 100kW and 250kW inverters are easy to install both indoors and outdoors. Designed for high reliability and durability, the rugged enclosure has earned a NEMA Type 4 rating, while the transformerless design reduces the inverter's size and weight, easing installation.

USER FRIENDLY MONITORING

The Mitsubishi Electric monitoring system displays graphical performance data through a web-based system, making remote monitoring possible to maximize system performance. The inverter includes a full-color LCD display panel and a key pad for ease of use.

FIRST IN THE INDUSTRY Gradationally Controlled Inverter Technology

- 98% Peak Efficiency
- Transformerless Design
- Wide MPPT Voltage Range
- NEMA4 Enclosure Rating
- Non-Bipolar



The ideal choice for
large-scale PV systems

Technical Specifications



Mitsubishi Electric Photovoltaic Inverter

Specification Sheet

Input Specifications		
Manufacturer	MITSUBISHI ELECTRIC	MITSUBISHI ELECTRIC
Maximum Open Circuit Voltage	600V DC	600V DC
DC Input Voltage Range	250-600V DC	250-600V DC
MPPT Range	250-600V DC	250-600V DC
Maximum DC Current	344A DC	859A DC
Output Specifications		
Output Power	100kW	250kW
Nominal AC Voltage	480V AC	480V AC
Output Voltage Range	423 - 528V AC +10% to -12% acceptable range	423 - 528V AC +10% to -12% acceptable range
Nominal AC Frequency	60Hz	60Hz
Output Frequency Range	59.3Hz - 60.5Hz +0.5 to -0.7Hz acceptable range	59.3Hz - 60.5Hz +0.5 to -0.7Hz acceptable range
Maximum AC Output Current	121A	301A
Power Factor	> 0.99	> 0.99
AC Current Distortion	< 5% THD at rated power	< 5% THD at rated power
Peak Efficiency	97.0% estimated	98.0% estimated
CEC Weighted Efficiency	96.5% estimated	97.5% estimated
Environmental Specifications		
Operating Temperature Range	-25° C- +50° C	-25° C- +50° C
Altitude	< 1,000 m	< 1,000 m
Relative Humidity	0% - 95% no condensation	0% - 95% no condensation
Maintenance	Front side	Front side
Enclosure Rating (Outdoor)	NEMA 4	NEMA 4
Dimensions (H x W x D)	79.25 x 63.30 x 48.90 in (2,013 mm x 1,608 mm x 1,242 mm)	79.25 x 117.32 x 48.90 in (2,013 mm x 2,980 mm x 1,242 mm) tentative
Weight	2,204 lbs (1,000 kg)	3,306 lbs (1,500 kg)
Certifications	IEEE 1547, UL 1741	IEEE 1547, UL 1741



Mitsubishi Electric & Electronics USA, Inc.
5665 Plaza Drive, Cypress, CA 90630-0007
Telephone: 714-220-2500 Email: pv@meus.mea.com

www.mitsubishielectricsolar.com

Specifications subject to change without notice.
Printed with soy-based inks on recycled paper.
PVDMEUS009A