



**PERLIGHT**  
smart.black

# PLM-200MA-234

## 200W DELTA SERIES

Monocrystalline PERC solar module



**5** YEAR WORKMANSHIP WARRANTY

**5** YEAR LINEAR POWER OUTPUT WARRANTY

### ✓ ZERO BUSBAR RIBBON TECHNOLOGY



✓ NO CELL BUSBAR RIBBONS

✓ HIGH DENSITY LAYOUT

✓ INCREASED CELL SURFACE AREA

✓ GREENER TO THE ENVIRONMENT

Fluorine-free and low Pb levels, 60% less than conventional modules. Saving 0.3kg of metal ribbon per module by removing cell busbars

### ✓ BEAUTIFUL APPEARANCE

Ultra-sleek with consistent tone provides a modernised look

### ✓ PERFORMANCE

Outperforms conventional half-cell technology under shaded conditions, lower operating temperature and more

### ✓ SAFETY AND RELIABILITY

Lower operating temperature and exceptional performance under mechanical and thermal stress dramatically reduces risks of micro-cracks and hot-spots, improving performance and prolonging module life

200W DELTA SERIES

Electrical Characteristics at Standard Test Conditions(STC)

Module Type: PLM-200MA-234	200
Maximum Power-Pm [W]	200
Open Circuit Voltage-Voc [V]	50.97
Short Circuit Current-Isc [A]	4.97
Maximum Power Voltage-Vm [V]	42.12
Maximum Power Current-Im [A]	4.75
Module Efficiency-η [%]	19.26

Electrical Characteristics at NMOT

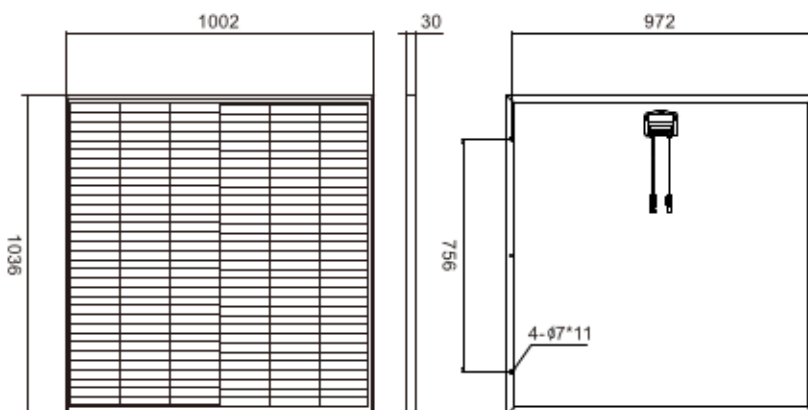
Maximum Power-Pm [W]	151.1
Open Circuit Voltage-Voc [V]	47.71
Short Circuit Current-Isc [A]	3.98
Maximum Power Voltage-Vm [V]	39.44
Maximum Power Current-Im[A]	3.83

Note: 1. Standard Test Conditions(STC): Irradiance 1000W/m<sup>2</sup>, AM 1.5, ambient temperature 25°C according to EN 60904-3;  
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m<sup>2</sup>; wind speed 1m/s; ambient temperature 20°C;  
3. Tolerance of Pm: 0/+3%, Measuring uncertainty of power: ±3%, Performance deviation of Voc [V], Isc[A], Vm[V] and Im[A]: ±3%.

Mechanical Characteristics

Dimensions	1036 × 1002 × 30mm (L×W×H)
Weight	12.5kg
Front Glass	AR coating tempered glass, 3.2mm
Frame	Anodized aluminum profile
Cells	Mono-crystalline solar cell
Cell Orientation	234 (6 * 39)
Junction Box	IP68, two diodes
Cable	4mm <sup>2</sup> , 900 mm (other lengths available)

Module Diagram



Temperature Characteristics

NMOT	42.3°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

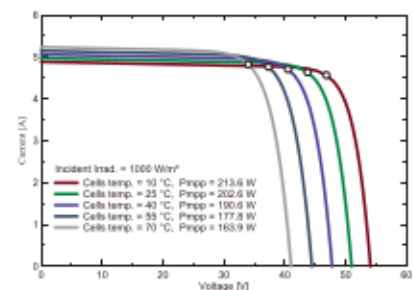
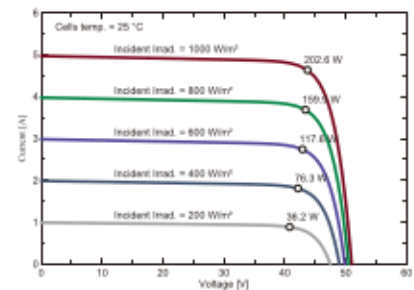
Maximum Ratings

Maximum System Voltage [V]	DC 1500/1000 (IEC)
Series Fuse Rating [A]	20
Maximum Surface Load Capacity [Pa]	5400
Temperature Range [°C]	-40 ~ +85
Withstanding Hail	Maximum diameter of 25mm with impact speed of 23 m/s-1

Package

Container	40' HQ
Number of pallets per container	22
Number of modules per container	1320

I-V curve



Warranty

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