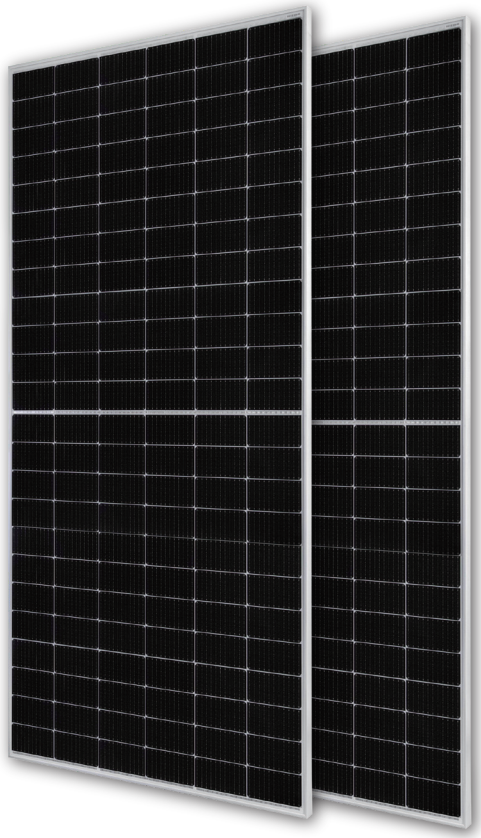
Looop

Bringing Renewable Energy Close To You

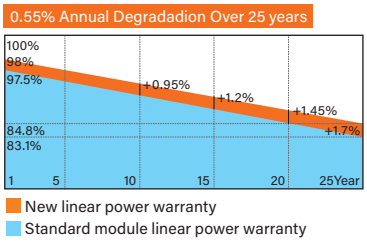


LPW-545MCV-144MH

MBB Half-Cell PERC Module

Key Features

- Higher conversion efficiency - more power production per unit area
- Lower temperature coefficient
- Positive power tolerance : 0~+5W
- Less shading effect



- 12-year product warranty
- 25-year linear power output warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems

The Ideal Solution for

- Rooftop systems on residential buildings
- Ground-mounting systems
- Rooftop systems on commercial/industrial buildings

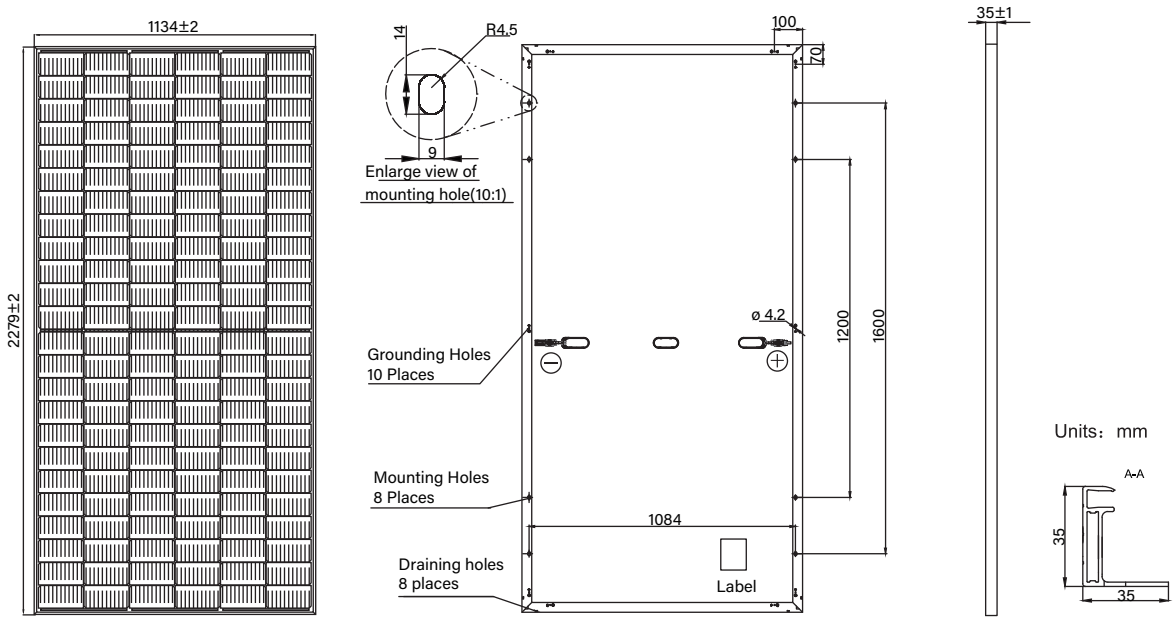
About Looop

Looop is a venture company founded in the wake of the Great East Japan Earthquake which occurred in March 2011. As a volunteer effort, the Company installed stand-alone solar power systems in areas affected by the disaster. Since its foundation, Looop has sold solar power systems. It also has been engaged in the installation and operation of company-owned power plants, as well as providing remote monitoring systems and O&M services, achieving increased sales growth annually.

Looop has sold more than 2,300 solar power systems* nationwide. The simplicity of our packaged solar power plant kit, which includes all the necessary components, has been favored by many, and many more power plants are installing the Looop system across Japan. Our ever-increasing sales performance is proof of the trust that our clients place in us. *As of the end of May 2020

Since 2015, beside the PV panel installation business, Looop also has offered a broad array of energy services in its electricity retail business division called " Looop Denki". As by end of March 2021, Looop had counted over 310,000 low-voltage plan users (customers) , making it the largest independent electricity retailer in Japan.

Engineering Drawing (mm)



Mechanical Parameters

Model Number	LPW-545MCV-144MH
Dimensions (L×W×H) (mm)	2279±2 × 1134±2 × 35±1
Weight (kg)	28.6±3%
Cell Arrangement	144 (6×24)
Cell	Mono
Junction Box	IP68, 3 diodes
Cable Cross Section Size (mm^2)	4
Connector	QC 4.10-35
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1300mm(+)/1300mm(-)
Packaging Configuration	31 Per Pallet 620pcs/40ft Container

Electrical Parameters

Rated Maximum Power at STC (W)	545
Open Circuit Voltage (Voc/V)	49.75
Maximum Power Voltage (Vmp/V)	41.80
Short Circuit Current (Isc/A)	13.93
Maximum Power Current (Imp/A)	13.04
Module Efficiency (%)	21.1
Power Tolerance (W)	0~+5
Temperature Coefficient of Isc (α Isc)	+0.045%/℃
Temperature Coefficient of Voc (β Voc)	-0.275%/℃
Temperature Coefficient of Pmax (γ Pmp)	-0.350%/℃
STC	Irradiance 1000W/m^2, cell temperature 25℃, AM 1.5G

Working Conditions

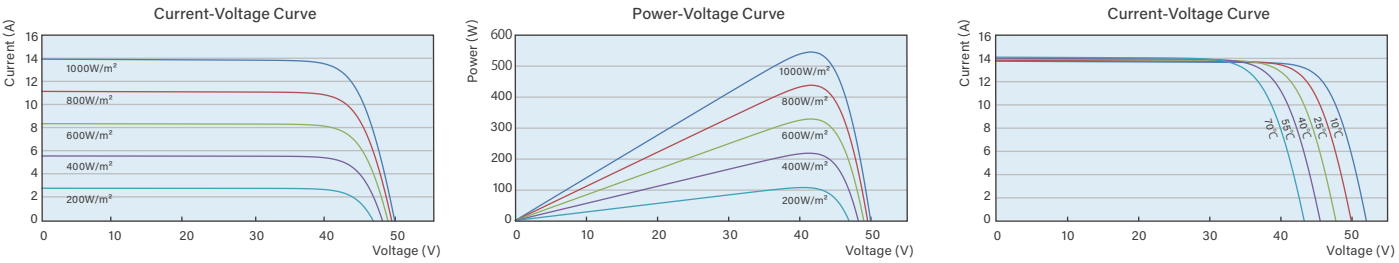
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40℃~+85℃
Maximum Static Load, Front	5400Pa (112 lb/ft^2)
Maximum Static Load, Back	2400Pa (50 lb/ft^2)
Maximum Series Fuse	25A
Nominal Operating Cell Temperature	45±2℃
Application Classification	Class II

NOCT

Max Power (Pmax) [W]	412
Open Circuit Voltage (Voc) [V]	46.55
Max Power Voltage (Vmp) [V]	39.20
Short Ciucuit Current (ISC) [A]	11.13
Max Power Current (Imp) [A]	10.51
Condition	Irradiance 800W/m^2, ambient temperature 20℃, wind speed 1m/s, AM 1.5G

The information contained herein is subject to change without notice.
The electrical parameter on the module label may have some difference with module datasheet according to certificate guidelines.

I-V Curves (LPW-545MCV-144MH)



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