

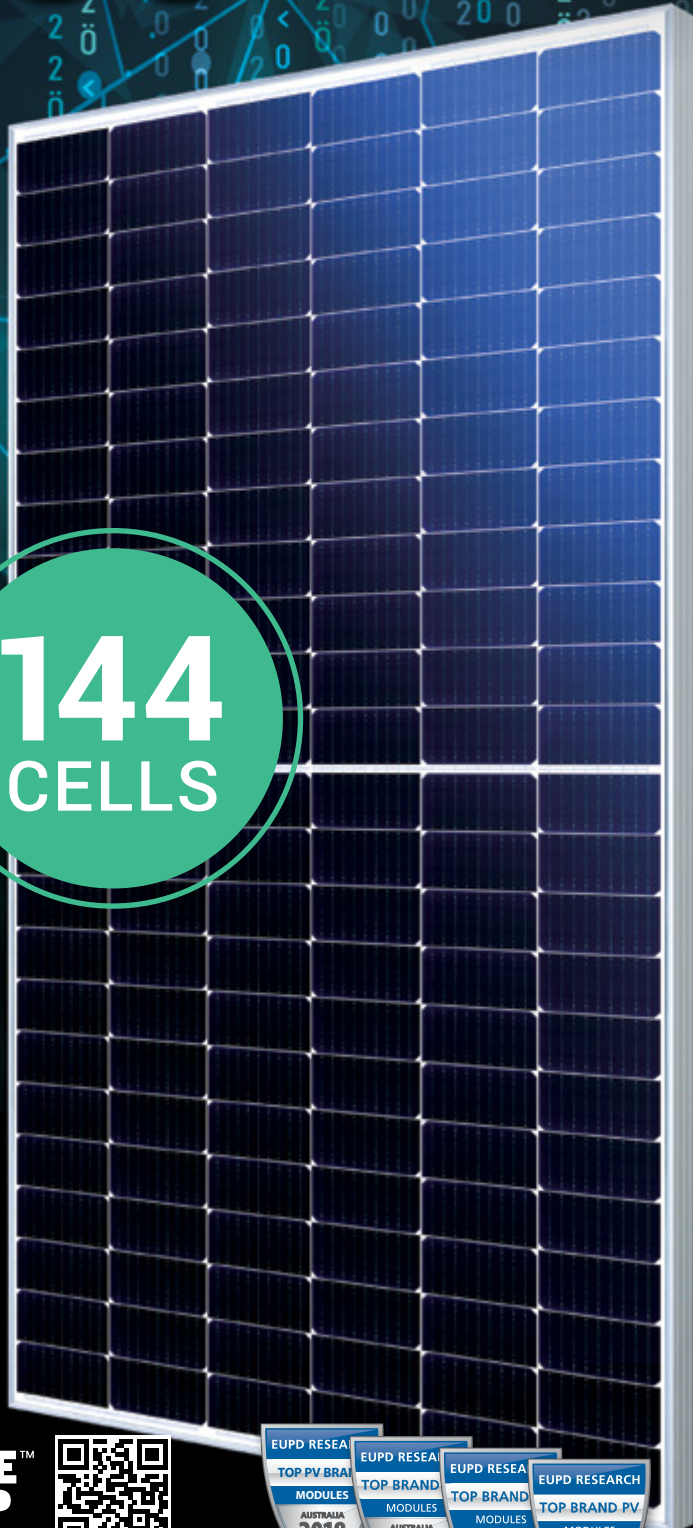
**455W**

DIAMOND MODULE TECHNOLOGY

# TWIN PLUS SERIES

- ✓ 15 Year Product Warranty
- ✓ Outstanding Module Efficiency
- ✓ PID Resistant
- ✓ Better Performance Under Shading Effect
- ✓ Salt Mist Certified to the Highest Severity Level

**144  
CELLS**



**DIAMOND  
MODULE  
TECHNOLOGY** | 15 YEAR  
PRODUCT  
WARRANTY

**BLUE  
CHIP**  
Solar Panel



# TWIN PLUS SERIES

## ELECTRICAL TYPICAL VALUES

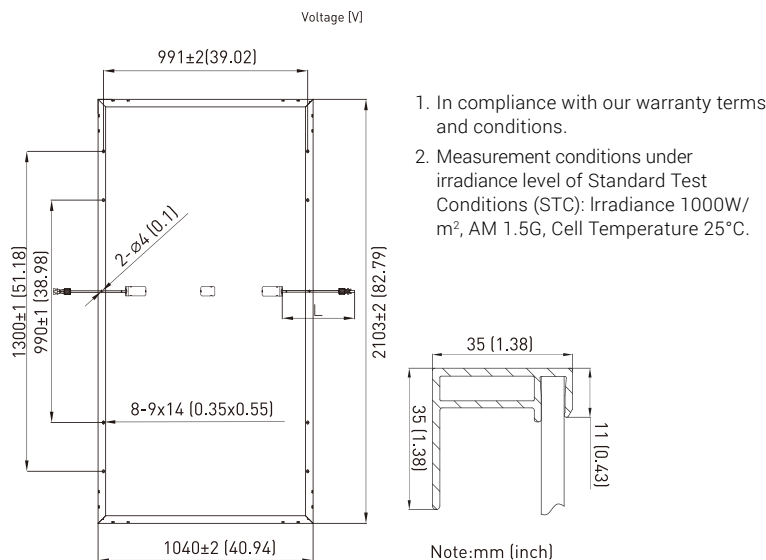
Model	<b>PS455M4-24/TH PS455M4H-24/TH</b>
Cell Type	Monocrystalline 166mm x 83mm
Rated Power (Pmpp) <sup>2</sup>	<b>455W</b>
Tolerance	0~+5w
Rated Current (Impp)	10.94
Rated Voltage (Vmpp)	41.60
Short Circuit Current (Isc)	11.47
Open Circuit Voltage (Voc)	49.37
Module Efficiency (%)	20.80
NOCT (Nominal Operation Cell Temperature)	43°C ± 2°C
Voltage Temperature Coefficient	-0.30%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.38%/°C

## MECHANICAL CHARACTERISTICS

Dimensions	Length: 2103mm, Width: 1040mm Height: 35mm
Weight	25.0kg
Front Glass	3.2mm toughened glass
Frame	Anodised aluminium alloy
Cable	4mm <sup>2</sup> (IEC), 1250mm (incl.connector)
Junction Box	IP 68 rated
Connectors	Genuine MC4 (1000V) / MC4-EVO 2 (1500V)

## PACKING CONFIGURATION

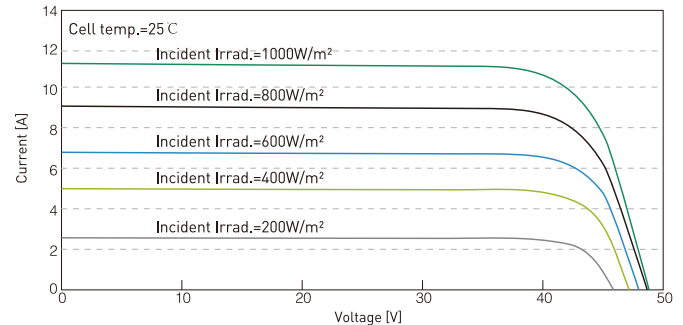
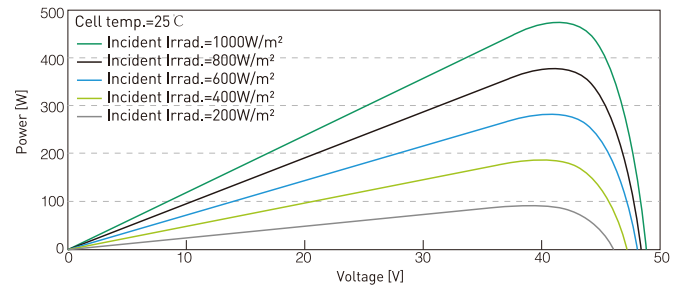
Container	Pallet	20'GP	40'HQ
Pieces per container	31	255	682



## ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85°C
Hail Diameter@ 80km/h	Up to 25mm
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Maximum Series Fuse Rating	20A
PV Module Classification	II
Fire Rating (IEC 61730)	C
Maximum System Voltage	DC 1500V/1000V

## ELECTRICAL CHARACTERISTICS



- 15 year product warranty
- 25-year linear performance warranty to 84.8%

**NOTE:** This datasheet is not legally binding. Phono Solar reserves the right to make specifications changes without notice.

1. In compliance with our warranty terms and conditions.

Further information can be found on our website: [www.phonosolar.com.au](http://www.phonosolar.com.au)