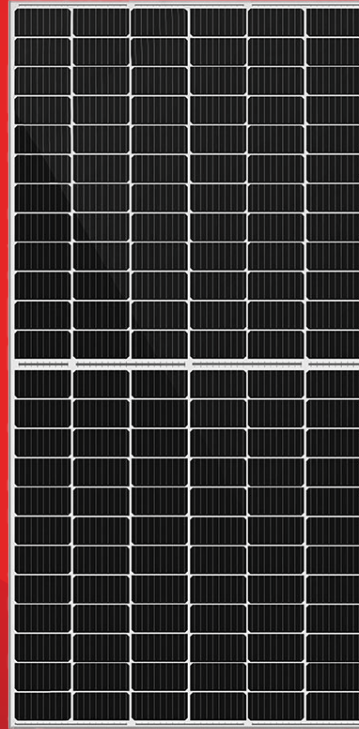




High Performance Guarantee!

25 years
performance
warranty

10 years
product
warranty

Solar PV Module (DCR/NON-DCR) 144 Mono PERC Half-Cut Cell Module

Range - NSM 525Wp to 560Wp

Leading Features

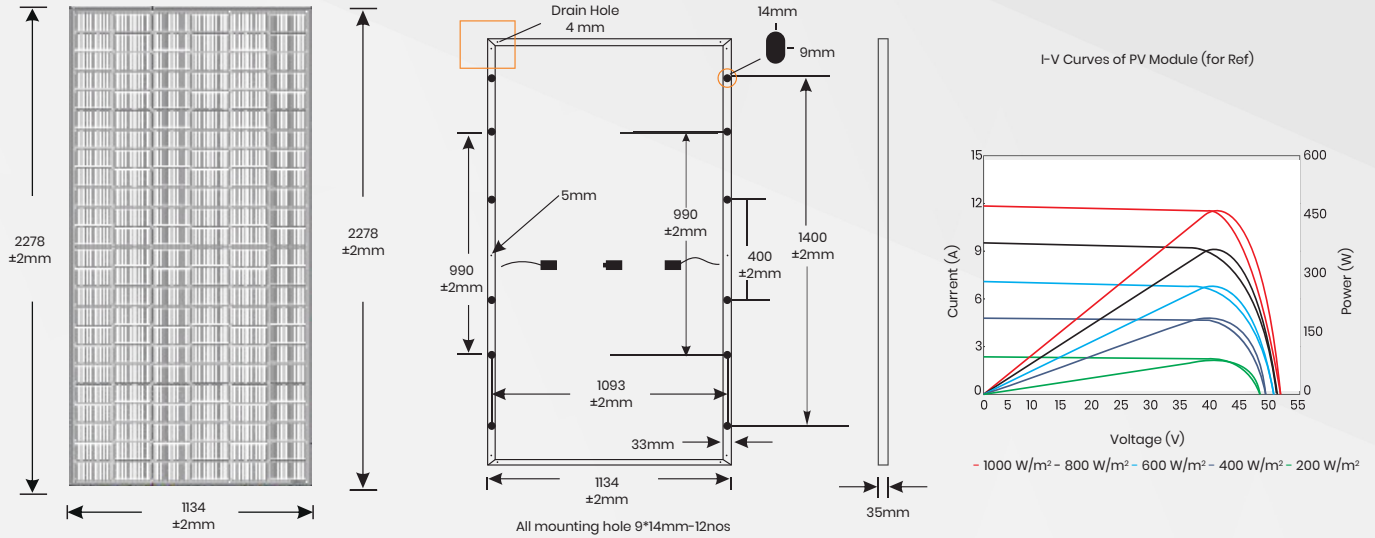
 Ideal For Large Scale Installations	 High Power	 Better Shading Tolerance	 Lower Lcoe & System Cost	 Excellent Temperature Performance
 Non-destructive Cutting	ALMM APPROVED LIST BY MNRE	MODULE EFFICIENCY UP TO 21.67%	POWER TOLERANCE UP TO 4.99W	

Product Certification

IS 14286, IS 61730-1 & 2, IS 62804, IEC 61701, UL 61703, Fire Rating BIS ISO 9001, 14001, 45001

Solar PV Module 144 Mono PERC Half-Cut Cell Module

Mechanical Dimensions



Electrical Data

Module Type	NSM525 – 144		NSM530 – 144		NSM535 – 144		NSM540 – 144		NSM545 – 144		NSM550 – 144		NSM555 – 144		NSM560 – 144	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	525	390.46	530	393.99	535	397.67	540	401.28	545	405.17	550	408.80	555	412.53	560	416.29
Maximum Power Voltage (Vmp)	41.54	39.00	41.76	39.20	41.99	39.42	42.21	39.63	42.46	39.86	42.68	40.07	42.91	40.28	43.14	40.50
Maximum Power Current (Imp)	12.64	10.01	12.69	10.05	12.74	10.09	12.79	10.13	12.84	10.16	12.88	10.20	12.93	10.24	12.98	10.28
Open-circuit voltage (Voc)	49.80	45.77	49.94	45.92	50.0	46.06	50.16	46.20	50.3	46.35	50.49	46.51	50.62	46.66	50.75	46.81
Short-circuit current (Isc) (A)	13.45	10.74	13.5	10.77	13.56	10.81	13.60	10.84	13.65	10.88	13.69	10.91	13.74	10.94	13.78	10.98
Module Efficiency STC (%)	20.32		20.51		20.71		20.90		21.09		21.29		21.48		21.67	
Operating Temperature (°C)	-40°C ~ +85°C															
Maximum System Voltage	1500 V DC (IEC)															
Maximum series fuse rating	20A															

- STC Irradiance 1000 W/m² Cell Temperature 25°C AM = 1.5
- NOCT Irradiance 800 W/m² Ambient Temperature 20°C AM = 1.5 Wind Speed = 1 m/s

Mechanical Data

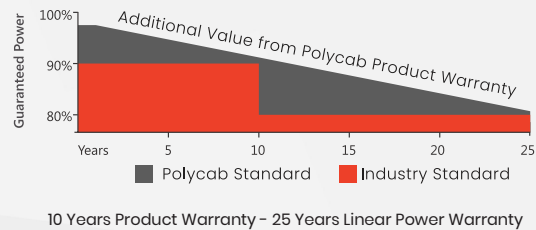
Specification	Data
Cell Type	Half cut Mono PERC
Cell Arrangement	72 Mono PERC - 144 Half Cells
Dimensions	2278x1134x35 mm
Weight	29 Kg.
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Cable	4 mm² (IEC) - Length 0.35 mtr (Potrait)/1.4mtr(Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs

Temperature Characteristics

Specification	Data
Temperature Co-efficient (Pmax)	-0.34% /°C
Temperature Co-efficient (Voc)	-0.26% /°C
Temperature Co-efficient (Isc)	+0.05% /°C
Nominal Operating Cell Temperature	42 ± 2°C

Note : The specification and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement, Polycab India Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Performance Warranty



Increased Shade Tolerance

HALF-CELL MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading

* The above data is liable to change without prior notice.
Warranty applicable as per standard warranty terms

