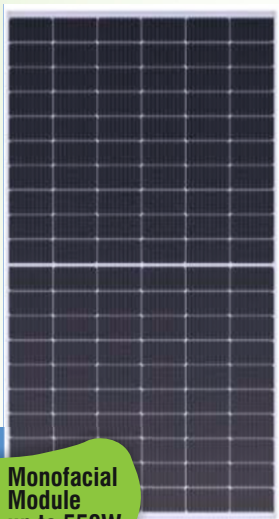




# TRUSTED PARTNER

## For Efficiency & Performance

### Mono Crystalline Solar PV Modules Mono Facial MBB, M10 Half-Cell



Monofacial  
Module  
up to 550W

#### MORE POWER

- Module power from 525 W to 550 W.
- Up to 5.2 % lower system cost.
- Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation.
- Compatible with mainstream trackers, cost effective product for utility power plant.
- Better Shading Tolerance.

#### MORE RELIABLE

- Minimizes micro-crack impacts.
- Heavy snow load up to 5400 Pa, Heavy Load up to 2400 Pa.

#### CYLINDRICAL

Tabbing Wire is used to reduce the shadow on active cells and increase the generation efficiency of the PV Module.

#### Field Reliability

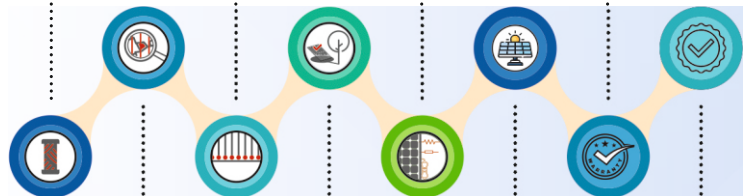
improved due to multi-contacts in the cell, reducing the cell stress.

#### Minimal Power Loss

due to low Internal Resistance.

#### Industry Leading

30 Years linear performance warranty.



#### Zero Micro cracks & Minimal Efficiency Loss

with a higher Busbars in PV module.

**Bypass Diodes**  
in split JB enable PV module to perform in partial shadow conditions.

**Strong Quality Check and Quality Assurance**  
with Pre and Post EL tests.

**15 Years Product Warranty**  
For workmanship.

## APPLICATIONS

On Grid Utility  
Scale Solar

C&I

Rooftop  
Residential  
System

Fully Automated  
European  
Manufacturing Line

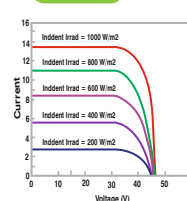
## Monocrystalline Solar PV Modules, Monofacial, MBB, M10 Half-Cell

### Electrical Parameters at STC

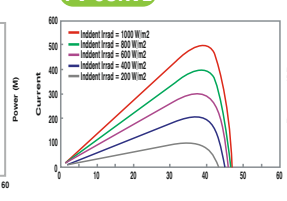
Model	UoM	BVGM10144-525 to 550					
Peak Power Pmax	Wp	525.00	530.00	535.00	540.00	545.00	550.00
Maximum Voltage, Vmpp	V	41.40	41.50	41.60	41.70	41.80	41.90
Maximum Current, Impp	A	12.69	12.78	12.87	12.95	13.04	13.13
Open Circuit Voltage, Voc	V	49.20	49.30	49.40	49.50	49.60	49.70
Short Circuit Current, Isc	A	13.40	13.48	13.56	13.64	13.73	13.82
FF	%	79.69	79.81	79.93	79.98	80.04	80.10
Module Efficiency	%	20.32	20.52	20.71	20.90	21.10	21.30

STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, air mass AM1.5g spectrum according to EN 60904-3.  
Power measurement tolerance is within + 2%

### IV CURVE



### PV CURVE



Average relative efficiency reduction of 5% at 200 W/m<sup>2</sup> according to EN 60904-1

### Electrical Parameters at NOCT

Power	Wp	387	393	397	399	402	407
V@Pmax	V	38.20	38.30	38.40	38.50	38.60	38.70
I@Pmax	A	10.14	10.29	10.34	10.37	10.43	10.52
Voc	V	45.70	45.90	46.00	46.10	46.20	46.30
Isc	A	10.83	10.89	10.96	11.03	11.09	11.15

NOCT irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/Sec

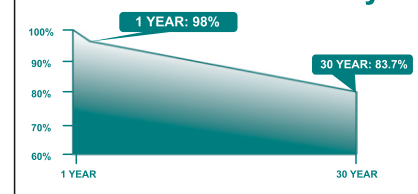
### Temperature co-efficients (TC) permissible operating conditions

TC of open circuit voltage	β	-0.27% /c
TC of short circuit current	α	0.050% /c
TC of power	γ	-0.350% /c
Maximum system voltage		1500 v
NOCT		45°C ± 2 °C
Temperature range		-40°C to +85°C

### Warranty And Certifications

Product Warranty**	15 years
Performance Warranty**	Linear power warranty for 30 years with 2% degradation for 1st year and 0.55% from 2nd year onward to 30th year.

### Performance Warranty

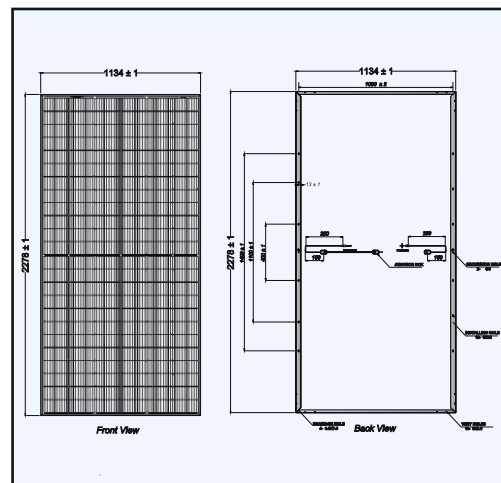


### Packing Information

Quantity per Pallet	31
Pallet/Container (40' HC)	20
Quantity/Container (40' HC)	620

### Mechanical Data

Length x Width x Height	2278 x 1134 x 35 mm
Weight	28.40 kg ± 0.500 kg
Junction Box	IP68, Split Junction Box with individual bypass diodes
Cable & Connectors	400 mm (+ve terminal) and 400 mm (-ve terminal) length cables, MC4 Compatible / MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate	High transmittance ARC glass
Cells	72 Mono PERC (144 half-cells) P-Type solar cells
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film
Frame	Anodized aluminium frame with twin wall profile
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Maximum Series Fuse Rating	25 A



#### Notes:

- The Specifications are subjected to change without prior notice.
- All Electrical Data Is for reference only.
- Please consult Sales Representatives for exact data while placing the order.

#### \*CAUTION

Please read safety and installation instructions before using the product

#### \*\*WARRANTY

Please refer the Warranty Card

#### Address:

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Mob: 82768 63844

**Kerala:** 18/1691/1 Maveli Arcade, Pattalakunnu, Mannuthy - 680651 Thrissur (dst) Kerala  
Mob: 77369 81183