

# 550Wp Bifacial – Mono PERC MODULE

Exide Bifacial Mono PERC Modules maximize energy yield by capturing reflected sunlight, significantly increasing overall efficiency. Crafted with precision and durability in consideration, the modules are built to deliver a prolonged and reliable lifespan for solar projects.

## SPECIFICATIONS

Model	NSM550-144
<b>Electrical Characteristics*</b>	
Rated maximum power- Pmax (Wp)	550
Voltage at maximum power- Vmp (V)	42.68
Current at maximum power- Imp (A)	12.88
Open circuit voltage- Voc (V)	50.49
Short circuit current- Isc (A)	13.69
Module Efficiency (%)	21.29%
NOCT (°C)	42°C ± 2°C
Maximum System Voltage (Vdc)	1500
Operating Temperature Range	-40°C to +85°C
Max. Relative Humidity (%)	85%
Temp. Co-efficient of Voc	-0.26%/°C
Temp. Co-efficient of Isc	0.040%/°C
Temp. Co-efficient of Power	-0.34%/°C
<b>Mechanical Characteristics</b>	
Cell Type	Bifacial Half cut Monocrystalline PERC
Number of Cells/Arrangement	144 / 6 x 24
Front cover	3.2mm High transmission, low iron, toughened glass with anti-reflective coating (ARC)
Maximum series fuse rating (A)	25
Junction Box	IP 68 split junction box
Frame	Pre-drilled anodised aluminium frame
Maximum front/rear static load (Pa)	5400/2400
Connector type	MC4 compatible
Dimension- L x W x T (mm)	2278 (±2) x 1134 (±2) x 35 (±1)
Mounting hole span-X (mm)	1093 (±2)
Mounting hole span-Y (mm)	400/990/1400 (±2)
Mounting hole dimension (mm x mm)	14 x 9 (±0.3)
Grounding hole diameter (mm)	5.5
Approximate Weight (kg)	29

\*All data measured in STC

Backside Power Gain*	
Gain	Power Output
10%	605.0
15%	632.5
20%	660.0
25%	687.5
30%	715.0

\*The bifacial gains are dependent on structure height, power plant design and albedo

**STC:** 1000 W/m<sup>2</sup> irradiance, AM 1.5 spectrum and 25°C cell temperature

**NOCT conditions:** 800 W/m<sup>2</sup> irradiance, AM 1.5 spectrum, ambient temperature 20°C, wind speed 1m/sec

