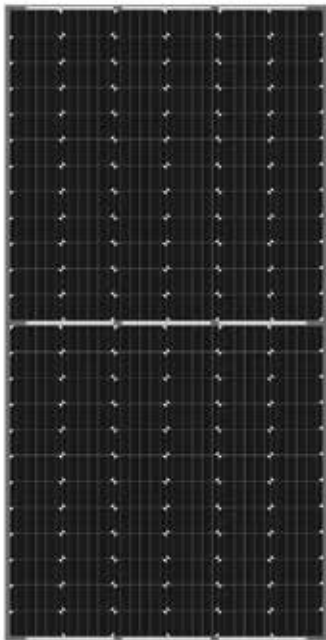


DESERV® Extreme

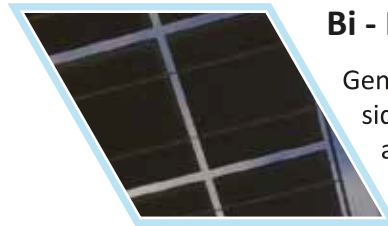
Solar PV Module

DESERV Extreme is an innovation engineered by combining Bi-Facial and Cut Mono PERC PV Cells. The Bi-Faciality is facilitated by a 'Transparent Backsheet' developed in-house.



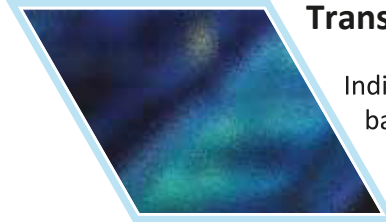
India's most efficient
Solar PV Module -
'DESERV Extreme'.

It delivers a front face output of
390 Wp giving up to 500 Wp
@30% Albedo.



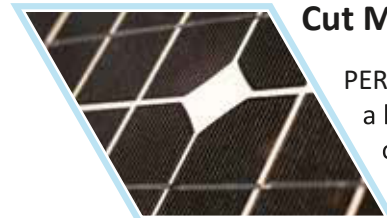
Bi - Facial

Generates power from both
sides, hence higher efficiency
and power density



Transparent Fluoro Backsheet

India's first transparent fluoro
backsheet designed in-house



Cut Mono PERC Cells

PERC Solar PV Cells have
a better spectrum
operating range and
passivation

KEY FEATURES



Made in India



Positive power
tolerance



Highly reliable anti- reflective
coated glass



High operating
currents and voltages



More energy per
square meter area



Better performance
under shading

IMS Certified Company
(ISO 9001: 2015, OHSAS 45001: 2018 & EMS - ISO 14001: 2015)

Independently Audited by
SOLARBUYER

Operating Conditions

Ambient Temperature (°C)	-40 to +85
Maximum System Voltage (Volts)	1000
Hail impact Velocity (m/sec)	23
Maximum Surface Load Capacity (Pa)	5400

Cell Temperature Coefficients

Open Circuit Voltage	-0.29% /°C
Short Circuit Power	+0.05% /°C
Nominal Power	-0.40% /°C

Physical Parameters

No. of Cells	144
Module Dimensions (mm)	1987 x 987 (±2)
Module Thickness (mm)	40 or 35
Approximate Weight (kg)	21.8 or 21.5

Mechanical Characteristics

Cable	NO. 12 AWG, 4 Sq. mm
PV Connectors	MC4 Connectors / MC4 Compatible
Frame	Anodised Aluminium Alloy
Junction Box	IP67 Junction Box with 4 Rail
Glass	3.2 mm Thick Low Iron Tempered

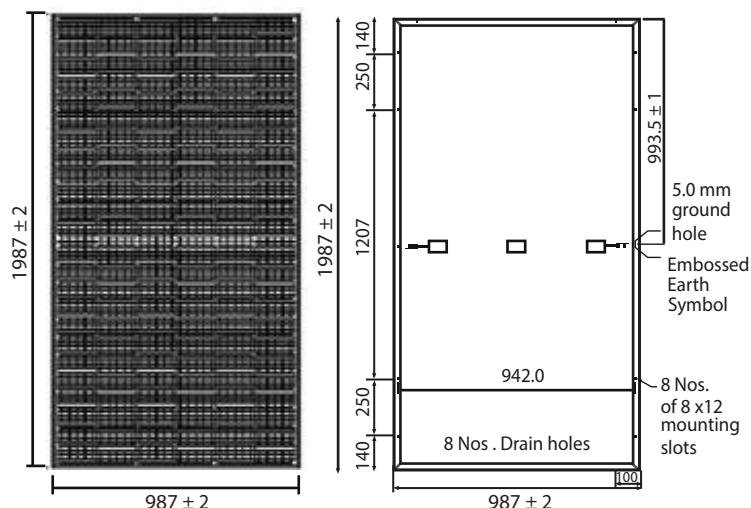
NOCT (Wp) at 45 ± 2 °C @800 W/m²

Pmax (W)	290.25
Voltage Vmp (V)	36.49
Current Imp (A)	07.96
Open Circuit Voltage Voc (V)	44.97
Short Circuit Current Isc (A)	08.34

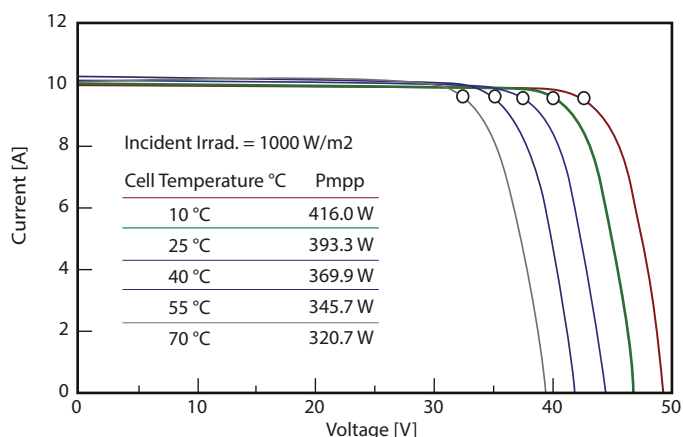
Bi-Facial Gain @Different Albedo (%)

	P _m (Wp)	V _{mp} (V)	I _{mp} (A)	V _{oc} (V)	I _{sc} (A)	Efficiency (%)
Front @ STC	390.0	39.9	9.78	48.36	10.21	19.88
5%	409.5	39.9	10.27	48.36	10.72	20.88
10%	429.0	39.9	10.76	48.36	11.23	21.87
15%	448.5	39.9	11.25	48.36	11.74	22.86
20%	468.0	39.9	11.74	48.46	12.25	23.86
25%	487.5	39.9	12.23	48.46	12.76	24.85
30%	507.0	39.9	12.71	48.46	13.27	25.85

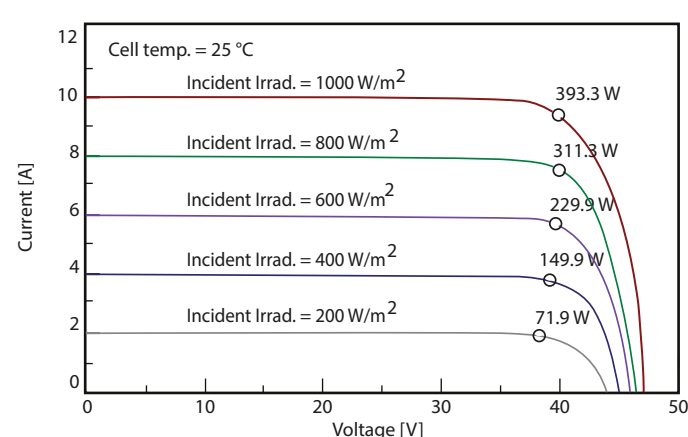
Module dimensions (mm)



I-V curves - Cell temperature sensitivity chart



I-V curves - Incident irradiance sensitivity chart



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