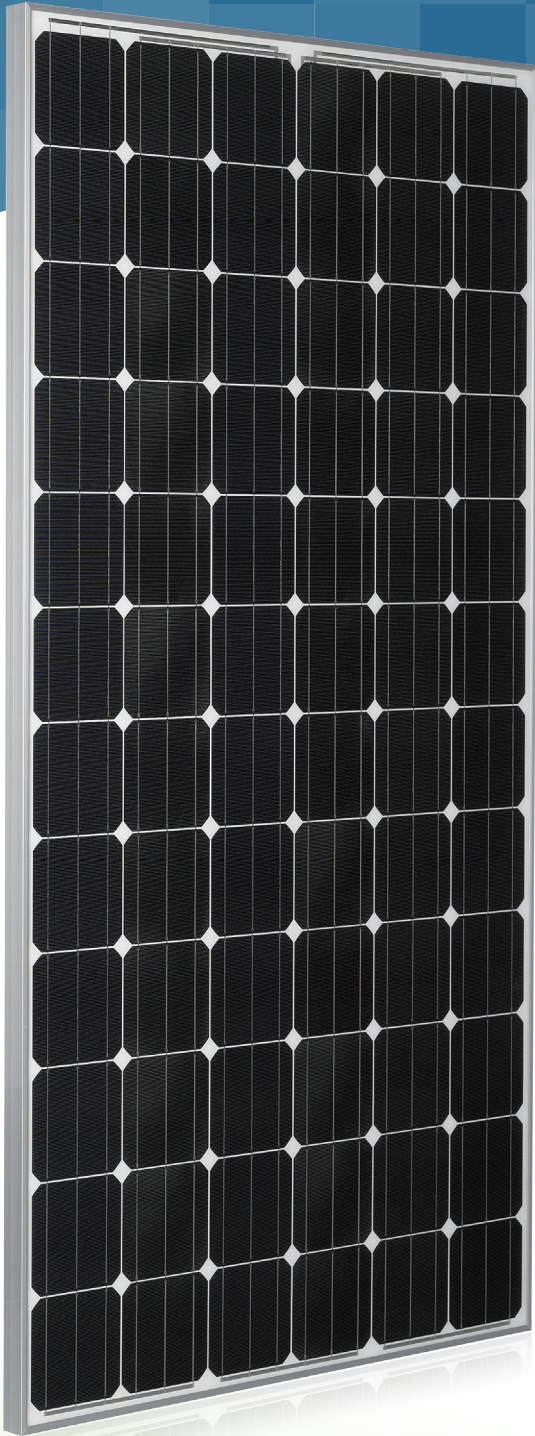


MT Series (72Cells)



Mono Crystalline Solar Module (Anti-PID)

E&R Solar provides highly-efficient and highly-trusted products under technological differentiation



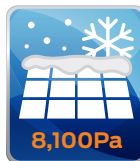
Positive Power Tolerance

Tight positive power sorting of 0W to +5W



PID Resistance Performance

E&R Solar module have lower Potential Induced Degradation with continuous effort on R&D (*Pass of TÜV SUD PID TEST)



Superior Durability

E&R Solar's PV modules offer robust design to withstand snow loads up to 8,100Pa and harsh environment



High quality components

AR coating glass for high sunlight absorption and self-cleaning Anodized Aluminum frame



Warranty

10 years for product warranty
10 years for 90.7% of warranted min. power
25 years for 80.2% of warranted min. power



Qualifications & Certificates

IEC 61215 : 2005 2nd Edition, IEC 61730-1 : 2004,
IEC 61730-2 : 2004, UL 1703 listed

E&R Solar

Mono Crystalline Solar Module

Physical Characteristics

Cells per Module	72 Cells (6 x 12)
Cell Type	Mono-crystalline Silicon
Module Dimension (L x W x H)	1,963 x 989 x 40 (mm) 77.28" x 38.93" x 1.57" (in.)
Module Weight	21.9Kg (48.28 lbs.)
Front Glass	3.2mm Tempered Glass
Frame	Anodized Aluminum (Black frame available by customer order)
Junction Box	IP65 with 3 bypass diodes
Connector type	MC4 Connector IP67
Cable Length (+/-)	2 x 1,200mm, 4 Sqmm

Electrical Characteristics

72 Cells Module Description		310MT	315MT	320MT	325MT	330MT
Item	Unit					
Max. Power (Pmax)	Wp	310	315	320	325	330
Power Tolerance	Wp	0 ~ + 4.99				
Open circuit voltage (Voc)	V	45.40	45.80	45.90	46.10	46.10
Short circuit current (Isc)	A	8.96	8.99	9.12	9.13	9.14
Max. Power voltage (Vmp)	V	37.00	37.20	37.40	37.80	38.50
Max. Power current (Imp)	A	8.38	8.47	8.56	8.60	8.58
Module efficiency	%	15.96	16.22	16.48	16.74	16.99

*STC(Standard Test Condition) : 1,000W/m², AM 1.5, 25°C

Thermal Characteristics

Rating	Unit	Value	
NOCT	°C	43±2	
Temperature coefficient	Isc	%/°C	+0.06
	Voc	%/°C	-0.35
	Pmax	%/°C	-0.46

*NOCT(Nominal Operating Cell Temperature) : 800W/m², 20°C, wind speed 1m/s

Permissible operating conditions

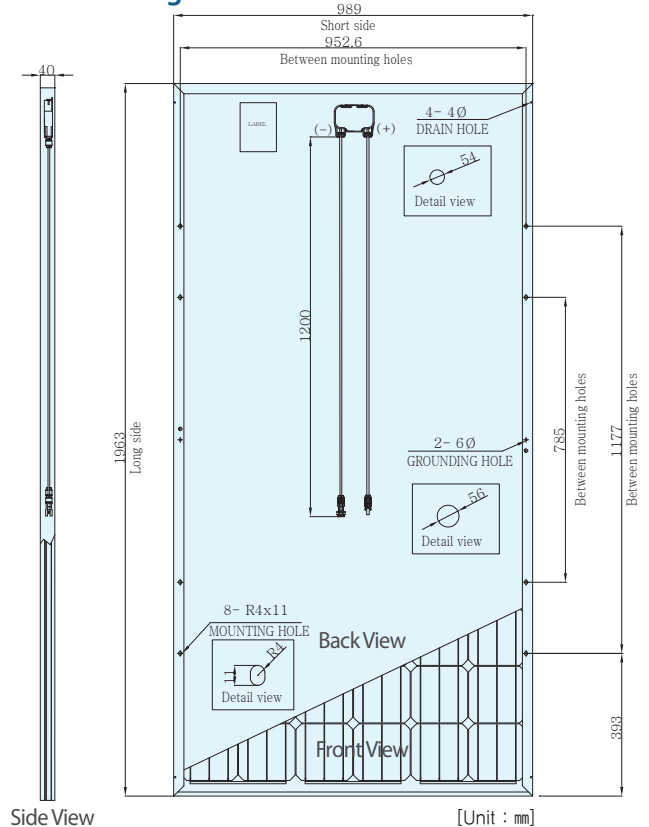
Temperature range	-40°C to +85°C
Maximum system voltage	1,000V DC(IEC), 600V DC(UL)
Maximum surface load capacity	IEC 8,100Pa, JET 5,400Pa
Maximum hailstone impact (diameter/velocity)	25mm / 23m/s

Packing Specifications

Packing box dimension (L x W x H)	2,035 x 1,065 x 1,100 (mm)
Number of modules per pallet	22
Number of modules per container (40ft)	484

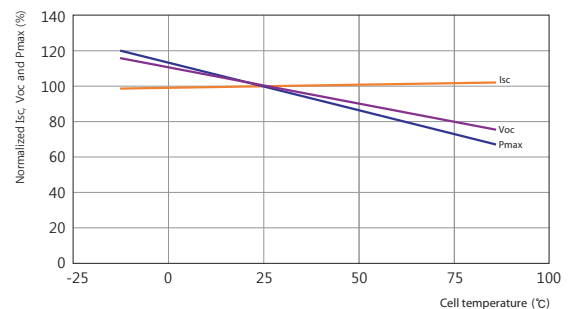
* Specification subject to technical change without prior notice.
E&R Solar reserves the rights of final interpretation.

Module Diagram



I-V Curves

Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax

