

Datasheet

Crystalline PV Module

KDM175WP-195WP



175 180 185 190 195

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	175 Wp	180 Wp	185 Wp	190 Wp	195 Wp
PTC rated output	155.2 Wp	159.7 Wp	164.3 Wp	168.9 Wp	173.5 Wp
Standard sorted output	$(P_{mpp} + 5 \text{ Wp}) > P_{flash} > P_{mpp}$				
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp \text{ min}}$)	175 Wp	180 Wp	185 Wp	190 Wp	195 Wp
Rated voltage (V_{mpp}) at STC	35.65 V	36.02 V	36.38 V	36.74 V	37.10 V
Rated current (I_{mpp}) at STC	4.92 A	5.00 A	5.09 A	5.17 A	5.25 A
Open circuit voltage (V_{oc}) at STC	44.63 V	44.88 V	45.12 V	45.37 V	45.62 V
Short circuit current (I_{sc}) at STC	5.23 A	5.31 A	5.39 A	5.47 A	5.55 A
Module efficiency	13.7%	14.1%	14.5%	14.9%	15.3%
Rated output (P_{mpp}) at NOCT	116.4 Wp	119.7 Wp	123.0 Wp	126.3 Wp	129.6 Wp
Rated voltage (V_{mpp}) at NOCT	31.73 V	32.12 V	32.43 V	32.79 V	33.15 V
Rated current (I_{mpp}) at NOCT	3.67 A	3.73 A	3.79 A	3.85 A	3.91 A
Open circuit voltage (V_{oc}) at NOCT	40.02 V	40.24 V	40.46 V	40.68 V	40.91 V
Short circuit current (I_{sc}) at NOCT	3.97 A	4.03 A	4.09 A	4.15 A	4.22 A

Temperature coefficient α (P_{mpp})	- 0.480%/K
Temperature coefficient β (I_{sc})	+ 0.062%/K
Temperature coefficient δ (I_{mpp})	- 0.022%/K
Temperature coefficient ϵ (V_{mpp})	- 0.462%/K
Temperature coefficient \times (V_{oc})	- 0.355%/K
Normal operating cell temperature (NOCT)	48°C

Maximum system voltage SCII	1000 Vdc
Maximum system voltage NEC	600 Vdc
Number of diodes	3 for IEC/ 6 for UL
Maximum series fuse rating	10 A



KD ENERGY

QUALIFICATION AND WARRANTIES

Product standard	IEC 61215, 61730
Extended product warranty	5 years
Output warranty of 90% performance P_{mpp} (STC)	10 years
Output warranty of 80% performance P_{mpp} (STC)	25 years

CELL TECHNOLOGY

Cell type	monocrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	5"

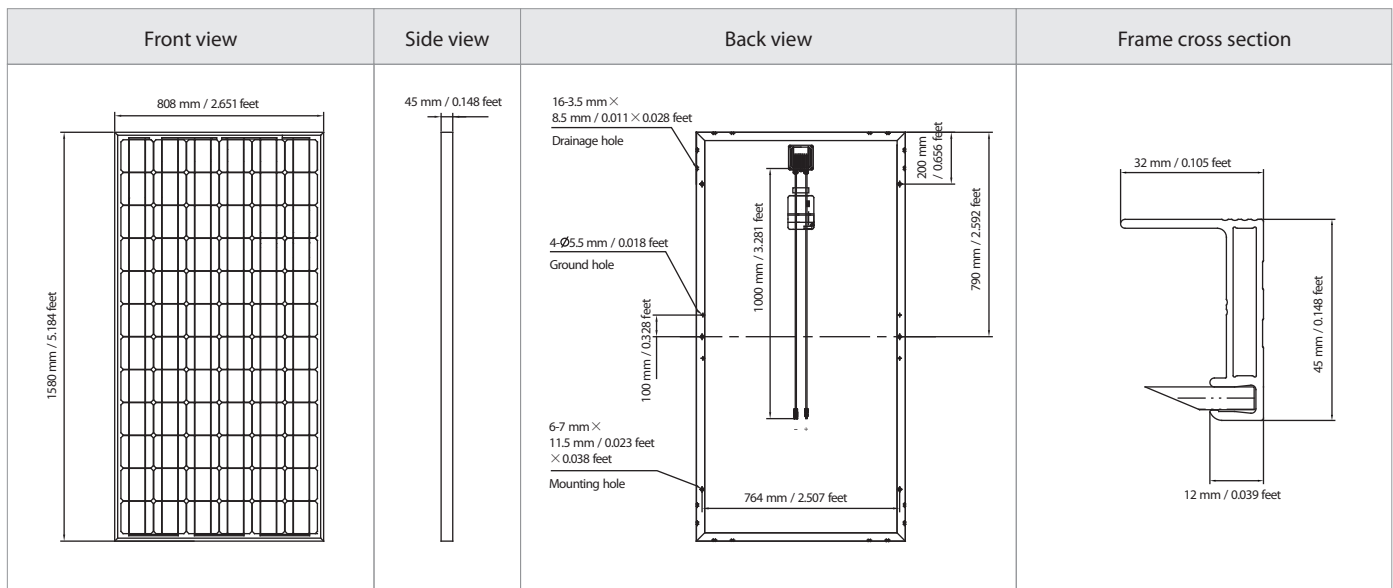
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1580 x 808 x 45 mm 62.20 x 31.81 x 1.77 in
Frame technology	Aluminum , silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	15.5 kg / 34.1 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65
Cable length / diameter (UL)	1000 mm / 39.37 in / 12 AWG
Cable length / diameter (IEC)	1000 mm / 39.37 in / 4 mm ²
Maximum load capacity (Pa)	5400 Pa
Fire class	C
Connector type (UL)	Multi contact type 4
Connector type (IEC)	MC type 4 compatible

MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	390 kg / 858 lbs

MODULE DIMENSION DETAILS



Specifications and designs included in this datasheet are subject to change without notice.