

Datasheet

Crystalline PV Module

KDM160WP-175WP



160

165

170

175

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	160 Wp	165 Wp	170 Wp	175 Wp
PTC rated output	141.8 Wp	146.4 Wp	151.0 Wp	155.5 Wp
Standard sorted output	$(P_{mpp} + 5 \text{ Wp}) > P_{flash} \geq P_{mpp}$			
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp \text{ min}}$)	160 Wp	165 Wp	170 Wp	175 Wp
Rated voltage (V_{mpp}) at STC	31.87 V	32.42 V	32.95 V	33.47 V
Rated current (I_{mpp}) at STC	5.02 A	5.09 A	5.16 A	5.23 A
Open circuit voltage (V_{oc}) at STC	40.84 V	41.12 V	41.41 V	41.69 V
Short circuit current (I_{sc}) at STC	5.42 A	5.49 A	5.55 A	5.61 A
Module efficiency	13.6%	14.1%	14.5%	14.9%
Rated output (P_{mpp}) at NOCT	106.4 Wp	109.7 Wp	113.0 Wp	116.4 Wp
Rated voltage (V_{mpp}) at NOCT	28.43 V	28.92 V	29.39 V	29.85 V
Rated current (I_{mpp}) at NOCT	3.74 A	3.79 A	3.85 A	3.90 A
Open circuit voltage (V_{oc}) at NOCT	36.62 V	36.87 V	37.13 V	37.38 V
Short circuit current (I_{sc}) at NOCT	4.12 A	4.17 A	4.22 A	4.26 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 V _{DC}
Maximum system voltage NEC	600 V _{DC}
Number of diodes	3
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	66 / 6 x 11
Cells dimension	5"

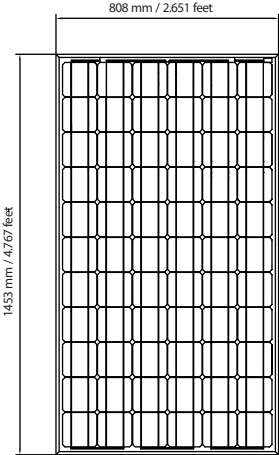
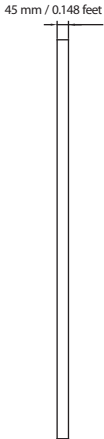
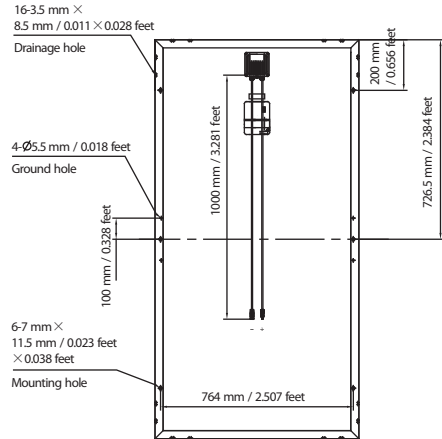
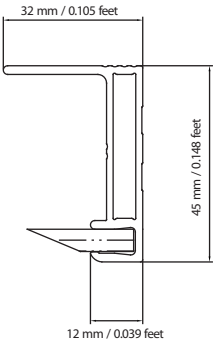
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1453 x 808 x 45 mm 57.20 x 31.81 x 1.77 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	14.3 kg / 31.5 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65
Cable length / diameter	1000 mm / 39.37 in / 4 mm ²
Maximum load capacity	2400 Pa
Fire class	C
Connector type	MC type 4 compatible

MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	360 kg / 793 lbs

MODULE DIMENSION DETAILS

Front view	Side view	Back view	Frame cross section
			

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