



# Datasheet

## Crystalline PV Module

### KDM85WP-95WP



85

90

95

#### ELECTRICAL SPECIFICATIONS

STC rated output ( $P_{mpp}$ )	85 Wp	90 Wp	95 Wp
PTC rated output	75.2 Wp	79.8 Wp	84.3 Wp
Standard sorted output	$(P_{mpp} + 5 \text{ Wp}) > P_{flash} \geq P_{mpp}$		
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ( $P_{mpp \text{ min}}$ )	85 Wp	90 Wp	95 Wp
Rated voltage ( $V_{mpp}$ ) at STC	17.10 V	17.80 V	18.50 V
Rated current ( $I_{mpp}$ ) at STC	4.97 A	5.03 A	5.12 A
Open circuit voltage ( $V_{oc}$ ) at STC	22.00 V	22.30 V	22.50 V
Short circuit current ( $I_{sc}$ ) at STC	5.36 A	5.43 A	5.47 A
Module efficiency	12.8%	13.5%	14.3%
Rated output ( $P_{mpp}$ ) at NOCT	56.5 Wp	59.5 Wp	63.2 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	15.26 V	15.96 V	16.55 V
Rated current ( $I_{mpp}$ ) at NOCT	3.70 A	3.75 A	3.82 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	19.73 V	20.00 V	20.18 V
Short circuit current ( $I_{sc}$ ) at NOCT	4.07 A	4.12 A	4.15 A

Temperature coefficient $\alpha$ ( $P_{mpp}$ )	- 0.480%/K
Temperature coefficient $\beta$ ( $I_{sc}$ )	+ 0.062%/K
Temperature coefficient $\delta$ ( $I_{mpp}$ )	- 0.022%/K
Temperature coefficient $\epsilon$ ( $V_{mpp}$ )	- 0.462%/K
Temperature coefficient $\times$ ( $V_{oc}$ )	- 0.355%/K
Normal operating cell temperature (NOCT)	48°C

Maximum system voltage SCII	1000 V <sub>DC</sub>
Maximum system voltage NEC	600 V <sub>DC</sub>
Number of diodes	1
Maximum series fuse rating	10 A



## QUALIFICATION AND WARRANTIES

Product standard	UL 1703
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	36 / 4 x 9
Cells dimension	5"

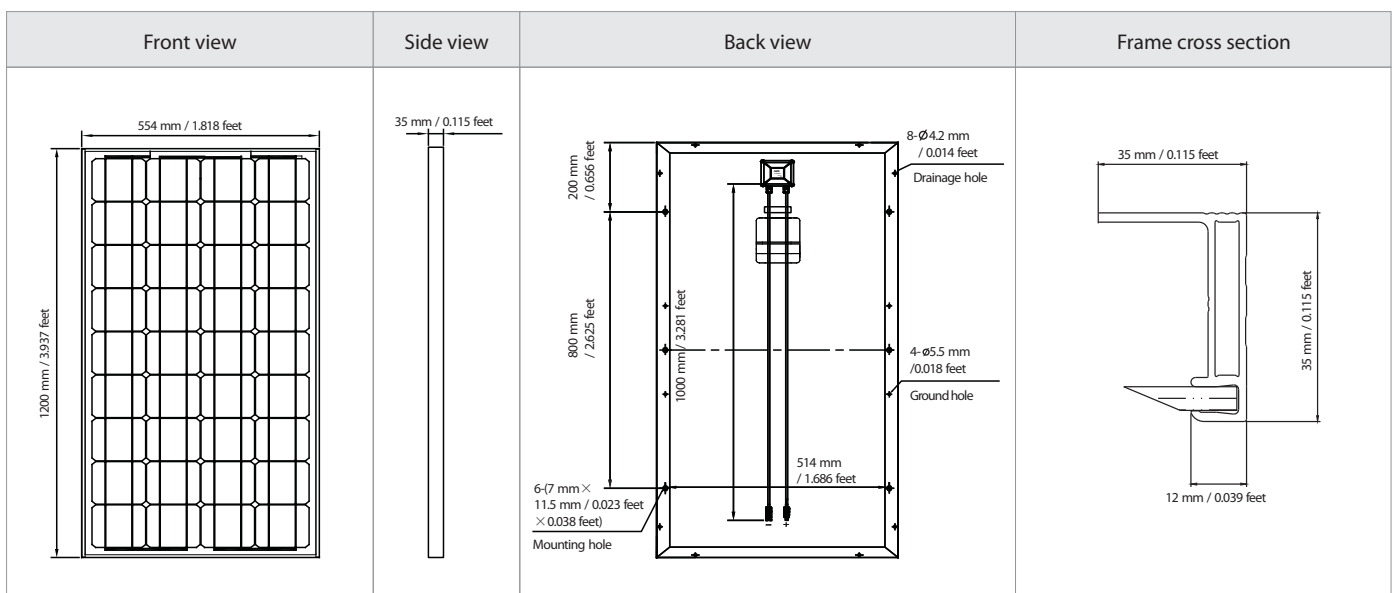
## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1200 x 554 x 35 mm 47.24 x 21.81 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	9.5 kg / 20.9 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65
Cable length / diameter	1000 mm / 39.37 in / 12 AWG
Maximum load capacity	2400 Pa
Fire class	C
Connector type	Multi contact type 4

## MISCELLANEOUS

Packing unit	60 modules
Weight of packing unit	590 kg / 1298 lbs

## MODULE DIMENSION DETAILS



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