



Datasheet

Crystalline PV Module

KDM195WP-220WP



195 200 205 210 215 220

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	195 Wp	200 Wp	205 Wp	210 Wp	215 Wp	220 Wp
PTC rated output	173.2 Wp	177.8 Wp	182.3 Wp	186.9 Wp	191.5 Wp	196.1 Wp
Standard sorted output	$(P_{mpp} + 5 \text{ Wp}) > P_{flash} \geq P_{mpp}$					
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp \text{ min}}$)	195 Wp	200 Wp	205 Wp	210 Wp	215 Wp	220 Wp
Rated voltage (V_{mpp}) at STC	25.18 V	25.52 V	25.90 V	26.32 V	26.64 V	26.99 V
Rated current (I_{mpp}) at STC	7.72 A	7.81 A	7.90 A	7.98 A	8.06 A	8.15 A
Open circuit voltage (V_{oc}) at STC	33.32 V	33.46 V	33.60 V	33.73 V	33.87 V	34.00 V
Short circuit current (I_{sc}) at STC	8.42 A	8.45 A	8.49 A	8.52 A	8.55 A	8.58 A
Module efficiency	13.1%	13.5%	13.8%	14.1%	14.5%	14.8%
Rated output (P_{mpp}) at NOCT	141.3 Wp	145.0 Wp	148.6 Wp	152.2 Wp	155.8 Wp	159.4 Wp
Rated voltage (V_{mpp}) at NOCT	22.58 V	22.89 V	23.19 V	23.52 V	23.84 V	24.13 V
Rated current (I_{mpp}) at NOCT	6.26 A	6.33 A	6.41 A	6.47 A	6.54 A	6.61 A
Open circuit voltage (V_{oc}) at NOCT	30.32 V	30.45 V	30.58 V	30.70 V	30.82 V	30.94 V
Short circuit current (I_{sc}) at NOCT	6.95 A	6.97 A	7.01 A	7.03 A	7.06 A	7.08 A

Temperature coefficient α (P_{mpp})	- 0.469%/K
Temperature coefficient β (I_{sc})	+ 0.035%/K
Temperature coefficient δ (I_{mpp})	- 0.042%/K
Temperature coefficient ϵ (V_{mpp})	- 0.433%/K
Temperature coefficient \times (V_{oc})	- 0.328%/K
Normal operating cell temperature (NOCT)	47°C

Maximum system voltage SCII	1000 V _{dc}
Maximum system voltage NEC	600 V _{dc}
Number of diodes	6
Maximum series fuse rating	15 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	54 / 6 x 9
Cells dimension	6"

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1494 x 994 x 45 mm 58.82 x 39.13 x 1.77 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18 kg / 39.6 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	2400 Pa
Fire class	C
Connector type (UL)	Multi contact type 4
Connector type (TUV)	MC type 4 compatible

MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	450 kg / 990 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.