

Datasheet

Crystalline PV Module

KDP195WP-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	177.1 Wp	181.8 Wp	186.4 Wp	191.1 Wp	195.7 Wp	200.4 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	25.17 V	25.51 V	25.89 V	26.31 V	26.65 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	33.61 V	33.74 V	33.88 V	34.01 V
Short circuit current (I_{sc}) at STC	8.41 A	8.44 A	8.47 A	8.50 A	8.53 A	8.56 A
Module Efficiency	13.1%	13.5%	13.8%	14.1%	14.5%	14.8%
Rated output (P_{mpp}) at NOCT	146.3 Wp	150.0 Wp	153.8 Wp	157.5 Wp	161.3 Wp	165.0 Wp
Rated voltage (V_{mpp}) at NOCT	22.88 V	23.20 V	23.51 V	23.84 V	24.17 V	24.46 V
Rated current (I_{mpp}) at NOCT	6.39 A	6.47 A	6.54 A	6.61 A	6.67 A	6.75 A
Open circuit voltage (V_{oc}) at NOCT	30.44 V	30.57 V	30.70 V	30.82 V	30.95 V	31.07 V
Short circuit current (I_{sc}) at NOCT	7.08 A	7.11 A	7.13 A	7.16 A	7.18 A	7.21 A

Temperature coefficient α (P_{mpp})	- 0.469%/K
Temperature coefficient β (I_{sc})	+ 0.052%/K
Temperature coefficient δ (I_{mpp})	- 0.008%/K
Temperature coefficient ϵ (V_{mpp})	- 0.463%/K
Temperature coefficient \times (V_{oc})	- 0.344%/K
Normal operating cell temperature (NOCT)	43 °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	polycrystalline
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
Maximum load capacity	2400 Pa
Fire class	C
Connector type	Multi contact type 4

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