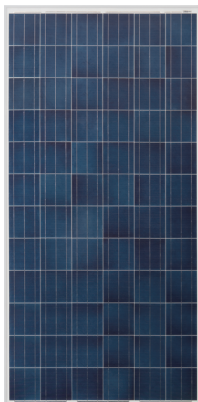


Datasheet

Crystalline PV Module

KDP265WP-295WP



265 270 275 280 285 290 295

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
PTC rated output	241.8 Wp	246.5 Wp	251.2 Wp	255.8 Wp	260.5 Wp	265.2 Wp	269.9 Wp
Standard sorted output	$(P_{mpp} + 5 \text{ Wp}) > P_{flash} \geq P_{mpp}$						
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp \text{ min}}$)	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
Rated voltage (V_{mpp}) at STC	35.54 V	35.57 V	35.60 V	35.63 V	35.66 V	35.68 V	35.72 V
Rated current (I_{mpp}) at STC	7.48 A	7.62 A	7.76 A	7.90 A	8.04 A	8.15 A	8.30 A
Open circuit voltage (V_{oc}) at STC	44.24 V	44.38 V	44.51 V	44.64 V	44.77 V	44.90 V	45.03 V
Short circuit current (I_{sc}) at STC	8.27 A	8.42 A	8.56 A	8.71 A	8.86 A	8.94 A	9.16 A
Module efficiency	13.6%	13.9%	14.1%	14.4%	14.7%	14.9%	15.2%
Rated output (P_{mpp}) at NOCT	198.8 Wp	202.5 Wp	206.3 Wp	210.0 Wp	213.8 Wp	217.5 Wp	221.3 Wp
Rated voltage (V_{mpp}) at NOCT	32.10 V	32.10 V	32.11 V	32.11 V	32.12 V	32.24 V	32.20 V
Rated current (I_{mpp}) at NOCT	6.19 A	6.31 A	6.42 A	6.54 A	6.66 A	6.75 A	6.87 A
Open circuit voltage (V_{oc}) at NOCT	40.42 V	40.54 V	40.66 V	40.78 V	40.90 V	41.02 V	41.14 V
Short circuit current (I_{sc}) at NOCT	6.96 A	7.09 A	7.21 A	7.33 A	7.46 A	7.53 A	7.71 A

Temperature coefficient α (P_{mpp})	- 0.451%/K
Temperature coefficient β (I_{sc})	+ 0.087%/K
Temperature coefficient δ (I_{mpp})	- 0.008%/K
Temperature coefficient ϵ (V_{mpp})	- 0.463%/K
Temperature coefficient \times (V_{oc})	- 0.332%/K
Normal operating cell temperature (NOCT)	43°C

Maximum system voltage SCII	1000 Vdc
Maximum system voltage NEC	600 Vdc
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	72 / 6 x 12
Cells dimension	6"

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1956 x 994 x 50 mm 77.01 x 39.13 x 1.97 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	23.5 kg / 51.7 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	5400 Pa
Fire class	C
Connector type (TUV)	MC Type 4 compatible

MISCELLANEOUS

Packing unit	20 modules
Weight of packing unit	528 kg / 1162 lbs

MODULE DIMENSION DETAILS

