HiKu
SUPER HIGH POWER POLY PERC MODULE
425 W ~ 440 W
CS3W-425|430|435|440P

MORE POWER
- 24 % higher power than conventional modules
- Up to 4.5 % lower LCOE
- Up to 2.7 % lower system cost
- Low NMOT: 42 ± 3 °C
- Low temperature coefficient (Pmax): -0.36 % / °C
- Better shading tolerance

MORE RELIABLE
- Lower internal current, lower hot spot temperature
- Minimizes micro-crack impacts
- Heavy snow load up to 5400 Pa, wind load up to 3600 Pa*
ELECTRICAL DATA | STC*

CS3W 425P 430P 435P 440P
Nominal Max. Power (Pmax) 425 W 430 W 435 W 440 W
Opt. Operating Voltage (Vmp) 39.7 V 39.9 V 40.1 V 40.3 V
Opt. Operating Current (Imp) 10.71 A 10.78 A 10.85 A 10.92 A
Open Circuit Voltage (Voc) 48.2 V 48.4 V 48.6 V 48.7 V
Short Circuit Current (Isc) 11.29 A 11.32 A 11.35 A 11.4 A
Module Efficiency 19.2% 19.5% 19.7% 19.9%
Operating Temperature -40°C ~ +85°C
Max. System Voltage 1500V (IEC/UL) or 1000V (IEC/UL)
Module Fire Performance TYPE 1 (UL 1703) or CLASS C (IEC 61730)
Max. Series Fuse Rating 20 A
Application Classification Class A
Power Tolerance 0 ~ + 10 W

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

CS3W 425P 430P 435P 440P
Nominal Max. Power (Pmax) 317 W 320 W 324 W 328 W
Opt. Operating Voltage (Vmp) 36.9 V 37.1 V 37.3 V 37.5 V
Opt. Operating Current (Imp) 8.57 A 8.62 A 8.68 A 8.74 A
Open Circuit Voltage (Voc) 45.3 V 45.5 V 45.6 V 45.7 V
Short Circuit Current (Isc) 9.11 A 9.13 A 9.19 A 9.20 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/h.

MECHANICAL DATA

Specification Data
Cell Type Poly-crystalline
Cell Arrangement 144 [2 X (12 X 6)]
Dimensions 2108 X 1048 X 40 mm (83.0 X 41.3 X 1.57 in)
Weight 24.9 kg (54.9 lbs)
Front Cover 3.2 mm tempered glass
Frame Anodized aluminium alloy, crossbar enhanced
J-Box IP68, 3 bypass diodes
Cable 4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector) Portrait: 500 mm (19.7 in ) (+) / 350 mm (13.8 in ) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector T4 series or H4 UTX or MC4-EVO2
Per Pallet 27 pieces
Per Container (40' HQ) 594 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

Specification Data
Temperature Coefficient (Pmax) -0.36 % / °C
Temperature Coefficient (Voc) -0.28 % / °C
Temperature Coefficient (Isc) 0.05 % / °C
Nominal Module Operating Temperature 42 ± 3°C

The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

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