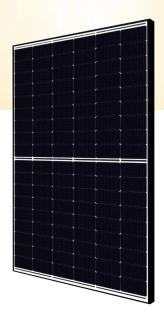


TOPHiKu6

N-type TOPCon Technology 425 W ~ 450 W CS6R-425 | 430 | 435 | 440 | 445 | 450T



MORE POWER



Module power up to 450 W Module efficiency up to 23.0 %



Excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Lower temperature coefficient (Pmax): -0.29%/°C, increases energy yield in hot climate



Lower LCOE & system cost

MORE RELIABLE



Tested up to ice ball of 45 mm diameter according to IEC 61215 standard



Minimizes micro-crack impacts



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*



Industry Leading Product Warranty on Materials and Workmanship*



Linear Power Performance Warranty*

1st year power degradation no more than 1% Subsequent annual power degradation no more than 0.4%

*Subject to the terms and conditions contained in the applicable Canadian Solar Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001: 2015 / Quality management system

ISO 14001: 2015 / Standards for environmental management system ISO 45001: 2018 / International standards for occupational health & safety IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 Take-e-way





the products will be used.

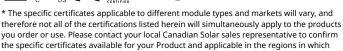












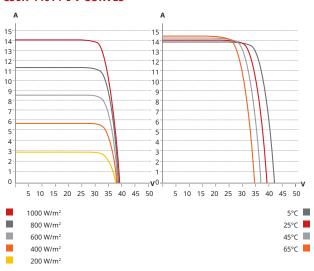
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 23 years, it has successfully delivered over 125 GW of premium-quality solar modules across the world.

^{*} For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

Rear View Frame Cross Section A-A 30 6-Ф5 Grounding Hole 8-14x9 Mounting Hole Mounting Hole 1093 1134

CS6R-440T / I-V CURVES



ELECTRICAL DATA | STC*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	425 W	430 W	435 W	440 W	445 W	450 W
Opt. Operating Voltage (Vmp)31.8 V	32.0 V	32.2 V	32.4 V	32.6 V	32.8 V
Opt. Operating Current (Imp)	13.37 A	13.44 A	13.51 A	13.59 A	13.66 A	13.72 A
Open Circuit Voltage (Voc)	38.8 V	39.0 V	39.2 V	39.4 V	39.6 V	39.8 V
Short Circuit Current (Isc)	13.78 A	13.86 A	13.94 A	14.01 A	14.09 A	14.16 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	22.8%	23.0%
Operating Temperature	-40°C ~	+85°C				
Max. System Voltage	1500V (IEC/UL)	or 1000	V (IEC/U	IL)	
Module Fire Performance		(UL 617: or CLAS			PE 2 (UL	61730
Max. Series Fuse Rating	25 A					
Protection Class	Class II					
Power Tolerance	0 ~ + 10					

^{*} Under Standard Test Conditions (STC) of irradiance of 1000 W/ m^2 , spectrum AM 1.5 and cell temperature of 25°C.

MECHANICAL DATA

Specification	Data		
Cell Type	TOPCon cells		
Cell Arrangement	108 [2 X (9 X 6)]		
Dimensions	1722 × 1134 × 30 mm		
Dimensions	(67.8 × 44.6 × 1.18 in)		
Weight	21.3 kg (47.0 lbs)		
Front Cover	3.2 mm tempered glass with anti- reflective coating		
Frame	Anodized aluminium alloy,		
J-Box	IP68, 3 bypass diodes		
Cable	4 mm ² (IEC), 12 AWG (UL)		
Connector	T6 or MC4 or MC4-EVO2 or MC4- EVO2A		
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1100 mm (43.3 in)*		
Per Pallet	35 pieces		
Per Container (40' HQ)	910 pieces or 840 pieces (only for US & Canada)		

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

ELECTRICAL DATA | NMOT*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	321 W	325 W	329 W	333 W	337 W	340 W
Opt. Operating Voltage (Vmp)30.1 V	30.3 V	30.4 V	30.6 V	30.8 V	31.0 V
Opt. Operating Current (Imp)	10.69 A	10.75 A	10.81 A	10.87 A	10.92 A	10.98 A
Open Circuit Voltage (Voc)	36.7 V	36.9 V	37.1 V	37.3 V	37.5 V	37.7 V
Short Circuit Current (Isc)	11.11 A	11.18 A	11.24 A	11.30 A	11.36 A	11.42 A

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

TEMPERATURE CHARACTERISTICS

-	Specification	Data
-	Temperature Coefficient (Pmax)	-0.29 % / °C
	Temperature Coefficient (Voc)	-0.25 % / °C
	Temperature Coefficient (Isc)	0.05 % / °C
	Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

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.

^{*} 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. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

CSI Solar Co., Ltd.