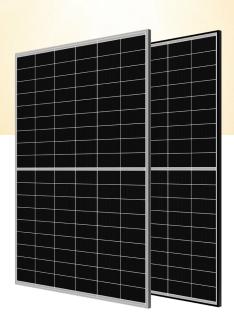




TOPHiKu6

N-type TOPCon Technology 445 W ~ 470 W CS6.1-54TD-445 | 450 | 455 | 460 | 465 | 470



MORE POWER



Module power up to 470 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 25 mm diameter according to IEC 61215 standard



Minimizes micro-crack impacts



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

*Black frame product can be provided upon request.



Enhanced 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%

*According to the applicable Canadian Solar Limited Warranty Statement.

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
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / MCS / UKCA / CGC UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 UNI 9177 Reaction to Fire: Class 1 / Take-e-way











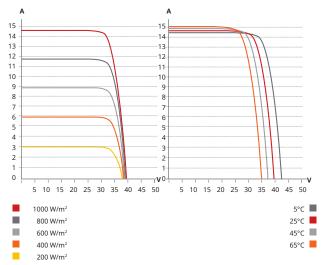


* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

ENGINEERING DRAWING (mm)

Rear View Frame Cross Section A - A B - B 6-05 Grounding Hole 4-14x9 Mounting Hole Mounting Hole

CS6.1-54TD-455 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	445 W	450 W	455 W	460 W	465 W	470 W
Opt. Operating Voltage (Vmp)32.8 V	33.0 V	33.2 V	33.4 V	33.6 V	33.8 V
Opt. Operating Current (Imp)	13.59 A	13.66 A	13.72 A	13.78 A	13.85 A	13.91 A
Open Circuit Voltage (Voc)	38.7 V	38.9 V	39.1 V	39.3 V	39.5 V	39.7 V
Short Circuit Current (Isc)	14.48 A	14.55 A	14.61 A	14.69 A	14.77 A	14.86 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)				
Module Fire Performance	TYPE 38	3 (UL 617	730) or (CLASS C	(IEC 617	730)
Max. Series Fuse Rating	25 A					
Protection Class	Class II					
Power Tolerance	0 ~ + 10	W				
* Under Standard Test Conditions (STC)	ofirradian	oco of 1000	\M//m2 cn	octrum AAA	1 F and co	II tompo

^{*} Under Standard Test Conditions (STC) of irradiance of 1000 W/m2, 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	1800 × 1134 × 30 mm
Dimensions	(70.9 × 44.6 × 1.18 in)
Weight	22.7 kg (50.0 lbs)
Front Glass	1.6 mm heat strengthened glass with anti-reflective coating
Back Glass	1.6 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1150 mm (45.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	840 pieces

 $[\]boldsymbol{\ast}$ For detailed information, please contact your local Canadian Solar sales and technical representatives.

ELECTRICAL DATA | NMOT*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	337 W	340 W	344 W	348 W	352 W	355 W
Opt. Operating Voltage (Vmp)31.0 V	31.2 V	31.4 V	31.6 V	31.8 V	32.0 V
Opt. Operating Current (Imp)	10.85 A	10.91 A	10.96 A	11.02 A	11.07 A	11.12 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	11.68 A	11.73 A	11.78 A	11.85 A	11.91 A	11.98 A
		(11110000				

^{*} Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/ m^2 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.