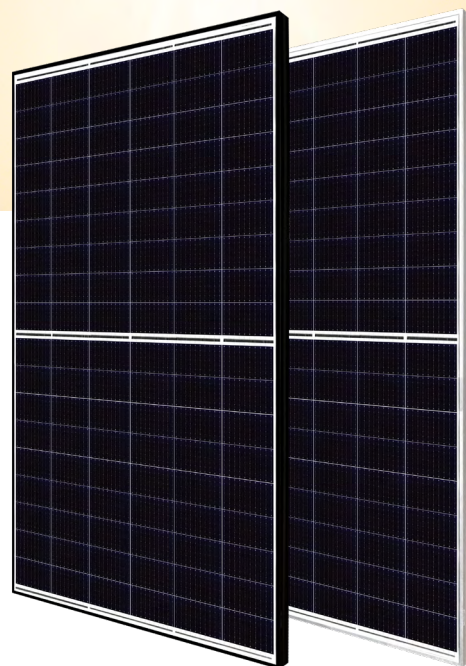




# HiHero

**HIGH EFFICIENCY HETEROJUNCTION CELL TECHNOLOGY**

**415 W ~ 440 W**

**CS6R-415 | 420 | 425 | 430 | 435 | 440H-AG**

## MORE POWER



Module efficiency up to 22.5%, maximize the use of rooftop space



No B-O LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Leading temperature coefficient (Pmax): -0.26%/°C, increases energy yield in hot climate



Better shading tolerance

## MORE RELIABLE



Minimizes micro-crack impacts



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



**Industry Leading Product Warranty on Materials and Workmanship\***



**Linear Power Performance Warranty\***

**1<sup>st</sup> year power degradation no more than 1%  
Subsequent annual power degradation no more than 0.35%**

\*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

## PRODUCT CERTIFICATES\*

IEC 61215 / IEC 61730 / CE / MCS / UKCA  
IEC 61701 / IEC 62716  
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.

\* For detailed information, please refer to the Installation Manual.

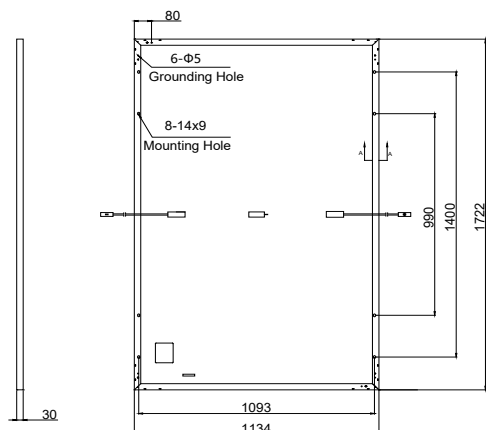
**CSI Solar Co., Ltd.**

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, [www.csisolar.com](http://www.csisolar.com), [support@csisolar.com](mailto:support@csisolar.com)

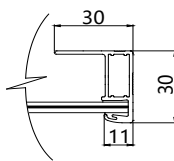
**CSI Solar Co., Ltd.** is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 67 GW of premium-quality solar modules across the world.

## ENGINEERING DRAWING (mm)

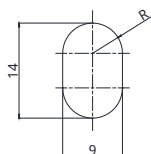
Rear View



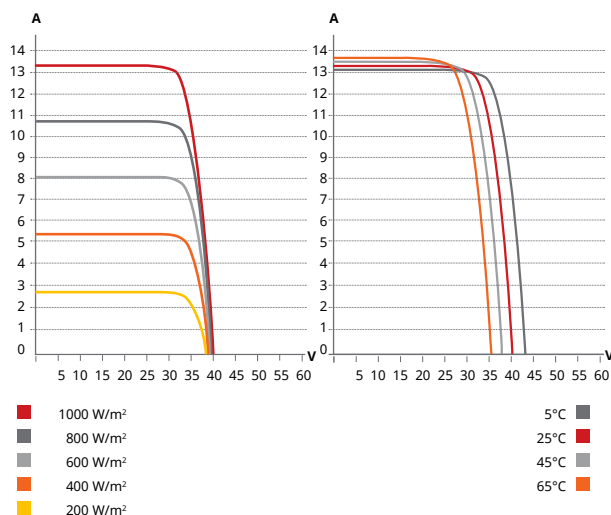
Frame Cross Section A-A



Mounting Hole



## CS6R-425H-AG / I-V CURVES



## ELECTRICAL DATA | STC\*

| CS6R                         | 415H-AG                    | 420H-AG | 425H-AG | 430H-AG | 435H-AG | 440H-AG |
|------------------------------|----------------------------|---------|---------|---------|---------|---------|
| Nominal Max. Power (Pmax)    | 415 W                      | 420 W   | 425 W   | 430 W   | 435 W   | 440 W   |
| Opt. Operating Voltage (Vmp) | 33.6 V                     | 33.7 V  | 33.7 V  | 33.8 V  | 33.8 V  | 33.9 V  |
| Opt. Operating Current (Imp) | 12.34 A                    | 12.48 A | 12.62 A | 12.76 A | 12.89 A | 13.02 A |
| Open Circuit Voltage (Voc)   | 40.0 V                     | 40.1 V  | 40.1 V  | 40.1 V  | 40.2 V  | 40.2 V  |
| Short Circuit Current (Isc)  | 13.23 A                    | 13.28 A | 13.33 A | 13.38 A | 13.43 A | 13.48 A |
| Module Efficiency            | 21.3%                      | 21.5%   | 21.8%   | 22.0%   | 22.3%   | 22.5%   |
| Operating Temperature        | -40°C ~ +85°C              |         |         |         |         |         |
| Max. System Voltage          | 1500V (IEC) or 1000V (IEC) |         |         |         |         |         |
| Module Fire Performance      | CLASS C (IEC61730)         |         |         |         |         |         |
| Max. Series Fuse Rating      | 25 A                       |         |         |         |         |         |
| Application Classification   | Class A                    |         |         |         |         |         |
| Power Tolerance              | 0 ~ + 10 W                 |         |         |         |         |         |

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## MECHANICAL DATA

| Specification                      | Data                                                                                 |
|------------------------------------|--------------------------------------------------------------------------------------|
| Cell Type                          | HJT cells                                                                            |
| Cell Arrangement                   | 108 [2 X (9 X 6)]                                                                    |
| Dimensions                         | 1722 X 1134 X 30 mm<br>(67.8 X 44.6 X 1.18 in)                                       |
| Weight                             | 23.0 kg (50.7 lbs)                                                                   |
| Front Glass                        | 2.0 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 <sup>2</sup> (IEC)                                                              |
| Cable Length (Including Connector) | Portrait: 410 mm (16.1 in) (+) / 290 mm (11.4 in) (-); landscape: 1100 mm (43.3 in)* |
| Connector                          | T6 or MC4 or MC4-EVO2                                                                |
| Per Pallet                         | 35 pieces                                                                            |
| Per Container (40' HQ)             | 910 pieces                                                                           |

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

## ELECTRICAL DATA | NMOT\*

| CS6R                         | 415H-AG | 420H-AG | 425H-AG | 430H-AG | 435H-AG | 440H-AG |
|------------------------------|---------|---------|---------|---------|---------|---------|
| Nominal Max. Power (Pmax)    | 317 W   | 321 W   | 325 W   | 329 W   | 332 W   | 336 W   |
| Opt. Operating Voltage (Vmp) | 32.2 V  | 32.3 V  | 32.3 V  | 32.3 V  | 32.4 V  | 32.4 V  |
| Opt. Operating Current (Imp) | 9.85 A  | 9.95 A  | 10.06 A | 10.17 A | 10.27 A | 10.37 A |
| Open Circuit Voltage (Voc)   | 38.1 V  | 38.1 V  | 38.1 V  | 38.2 V  | 38.2 V  | 38.3 V  |
| Short Circuit Current (Isc)  | 10.66 A | 10.70 A | 10.74 A | 10.78 A | 10.82 A | 10.86 A |

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup> spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## TEMPERATURE CHARACTERISTICS

| Specification                        | Data         |
|--------------------------------------|--------------|
| Temperature Coefficient (Pmax)       | -0.26 % / °C |
| Temperature Coefficient (Voc)        | -0.24 % / °C |
| Temperature Coefficient (Isc)        | 0.04 % / °C  |
| Nominal Module Operating Temperature | 41 ± 3°C     |

## PARTNER SECTION



\* 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. 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.

CSI Solar Co., Ltd.

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