

VEICHI

# VCS Series | 156H Monocrystalline Module

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# VCS-156H-XXX-D

| Electrical performance parameters                           | VCS-156H-605-D | VCS-156H-610-D | VCS-156H-615-D | VCS-156H-620-D | VCS-156H-625-D | VCS-156H-630-D |
|-------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Component performance under STC standard (tolerance: 0~+5W) |                |                |                |                |                |                |
| Maximum rated power (W)                                     | 605            | 610            | 615            | 620            | 625            | 630            |
| Maximum power voltage (V)                                   | 44.66          | 44.78          | 44.90          | 45.02          | 45.14          | 45.26          |
| Maximum power current (A)                                   | 13.55          | 13.62          | 13.70          | 13.77          | 13.85          | 13.92          |
| Open circuit voltage (V)                                    | 53.86          | 53.98          | 54.10          | 54.22          | 54.34          | 54.46          |
| Short circuit current (A)                                   | 14.19          | 14.26          | 14.33          | 14.40          | 14.47          | 14.54          |
| Component efficiency (%)                                    | 21.64          | 21.82          | 22.00          | 22.18          | 22.36          | 22.54          |
| Component performance under the NOCT standard               |                |                |                |                |                |                |
| Maximum rated power (W)                                     | 461            | 464.5          | 468.4          | 471.7          | 475.9          | 479.5          |
| Maximum power voltage (V)                                   | 42.30          | 42.50          | 42.60          | 42.70          | 42.90          | 43.00          |
| Maximum power current (A)                                   | 10.89          | 10.93          | 10.99          | 11.04          | 11.10          | 11.15          |
| Open circuit voltage (V)                                    | 51.00          | 51.20          | 51.40          | 51.50          | 51.60          | 51.70          |
| Short circuit current (A)                                   | 11.44          | 11.50          | 11.56          | 11.61          | 11.67          | 11.72          |

## Temperature Characteristic

|                                                     |             |
|-----------------------------------------------------|-------------|
| Maximum power temperature coefficient (Pmax)        | -0.34%/°C   |
| Open circuit voltage temperature coefficient (Voc)  | -0.26%/°C   |
| Short circuit voltage temperature coefficient (Isc) | -0.05%/°C   |
| Working temperature                                 | -40~ + 85°C |
| Rated operating cell temperature (NMOT)             | 42±2°C      |

STC (standard test environment): irradiance 1000W/ m² , battery temperature 25 °C ,spectral AM1.5, NOCT (nominal operating temperature of the module) irradiance800W/m², ambient temperature 20 °C, spectral AM1.5, wind speed 1m/s;

## Mechanical behavior

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Specifications                     | N-TOPCON 182X182mm                   |
| Battery arrangement                | N-TOPCON 156 [2X (6X13)]             |
| Component dimensions               | 2465 X 1134 X 30mm                   |
| Component weight                   | 34.6kg                               |
| Component panel                    | 2mm-2mm semi tempered glass          |
| Component Border                   | Anodic oxygen film aluminum alloy    |
| Junction box                       | IP68, 3 Diodes                       |
| Wireway                            | 4.0 square millimeters (IEC)         |
| Wire length (including connectors) | 300mm, wire length can be customized |
| Connector                          | KSW-CN01                             |

## Working conditions

|                        |                                     |
|------------------------|-------------------------------------|
| Maximum system voltage | 1000V/1500V/DC(IEC)                 |
| Fusing current         | 30A                                 |
| Static load            | Snow load: 5400Pa/Wind load: 2400Pa |
| Grounding resistance   | ≤ 0.1Ω                              |
| Safety level           | II                                  |
| Insulation resistance  | ≥ 100M Ω                            |

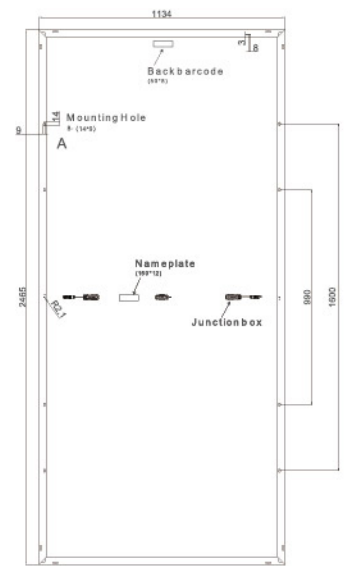
## Packaging Information

|                    |                  |
|--------------------|------------------|
| Container size     | 40HQ             |
| Sheet/Tray         | 36               |
| Pallets/Containers | 16               |
| Pieces/Container   | 496              |
| Package size       | 2497*1120*1235mm |
| Package weight     | 1300kg           |

## Technical drawings



Front View



Rear View

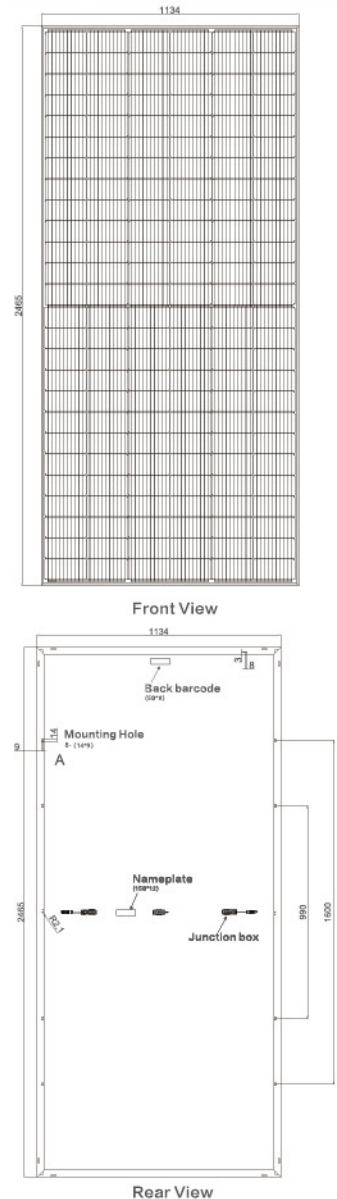
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# VCS-156H-XXX-P

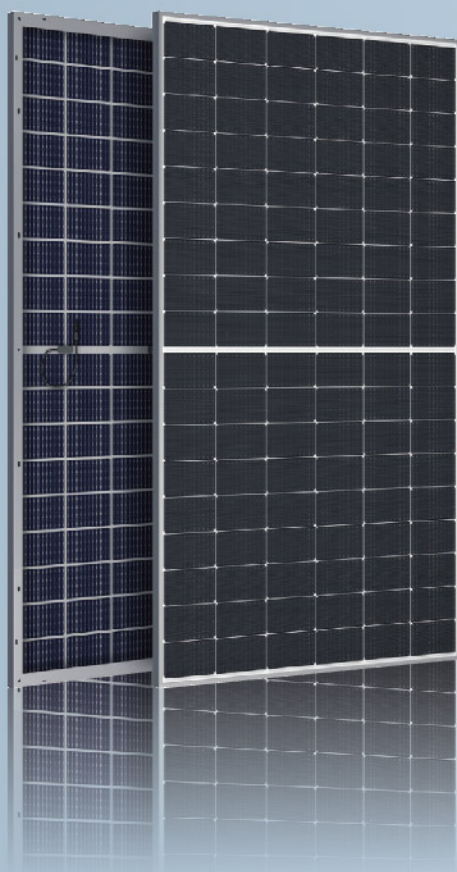
| Electrical performance parameters                                                                                                                                                                                                  | VCS-156H-575-P                       | VCS-156H-580-P | VCS-156H-585-P | VCS-156H-590-P | VCS-156H-595-P | VCS-156H-600-P |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Component performance under STC standard (tolerance: 0~+5W)                                                                                                                                                                        |                                      |                |                |                |                |                |
| Maximum rated power (W)                                                                                                                                                                                                            | 575                                  | 580            | 585            | 590            | 595            | 600            |
| Maximum power voltage (V)                                                                                                                                                                                                          | 44.20                                | 44.35          | 44.56          | 44.80          | 45.05          | 45.30          |
| Maximum power current (A)                                                                                                                                                                                                          | 13.01                                | 13.08          | 13.13          | 13.17          | 13.21          | 13.25          |
| Open circuit voltage (V)                                                                                                                                                                                                           | 53.44                                | 53.11          | 53.20          | 53.33          | 53.40          | 53.50          |
| Short circuit current (A)                                                                                                                                                                                                          | 13.72                                | 13.84          | 13.88          | 13.93          | 13.98          | 14.03          |
| Component efficiency (%)                                                                                                                                                                                                           | 20.57                                | 20.75          | 20.93          | 21.11          | 21.29          | 21.46          |
| Component performance under the NOCT standard                                                                                                                                                                                      |                                      |                |                |                |                |                |
| Maximum rated power (W)                                                                                                                                                                                                            | 428                                  | 432            | 436            | 440            | 444            | 448            |
| Maximum power voltage (V)                                                                                                                                                                                                          | 41.08                                | 41.91          | 42.11          | 42.23          | 42.37          | 42.47          |
| Maximum power current (A)                                                                                                                                                                                                          | 10.24                                | 10.31          | 10.36          | 10.42          | 10.48          | 10.55          |
| Open circuit voltage (V)                                                                                                                                                                                                           | 50.30                                | 50.40          | 50.60          | 50.70          | 50.80          | 50.90          |
| Short circuit current (A)                                                                                                                                                                                                          | 11.06                                | 11.12          | 11.17          | 11.23          | 11.28          | 11.34          |
| Temperature Characteristic                                                                                                                                                                                                         |                                      |                |                |                |                |                |
| Maximum power temperature coefficient (Pmax)                                                                                                                                                                                       | -0.34%/℃                             |                |                |                |                |                |
| Open circuit voltage temperature coefficient (Voc)                                                                                                                                                                                 | -0.26%/℃                             |                |                |                |                |                |
| Short circuit voltage temperature coefficient (Isc)                                                                                                                                                                                | -0.05%/℃                             |                |                |                |                |                |
| Working temperature                                                                                                                                                                                                                | -40~ + 85℃                           |                |                |                |                |                |
| Rated operating cell temperature (NMOT)                                                                                                                                                                                            | 42±2℃                                |                |                |                |                |                |
| STC (standard test environment): irradiance 1000W/ m² , battery temperature 25 ℃ ,spectral AM1.5, NOCT (nominal operating temperature of the module) irradiance800W/m², ambient temperature 20 ℃, spectral AM1.5, wind speed 1m/s; |                                      |                |                |                |                |                |
| Mechanical behavior                                                                                                                                                                                                                |                                      |                |                |                |                |                |
| Specifications                                                                                                                                                                                                                     | Single crystal silicon 182X182mm     |                |                |                |                |                |
| Battery arrangement                                                                                                                                                                                                                | Single crystal 156 [2X (6X13)]       |                |                |                |                |                |
| Component dimensions                                                                                                                                                                                                               | 2465 X 1134 X 35mm                   |                |                |                |                |                |
| Component weight                                                                                                                                                                                                                   | 31.5kg                               |                |                |                |                |                |
| Component panel                                                                                                                                                                                                                    | 3.2mm tempered coated glass          |                |                |                |                |                |
| Component Border                                                                                                                                                                                                                   | Anodic oxygen film aluminum alloy    |                |                |                |                |                |
| Junction box                                                                                                                                                                                                                       | IP68, 3 Diodes                       |                |                |                |                |                |
| Wireway                                                                                                                                                                                                                            | 4.0 square millimeters (IEC)         |                |                |                |                |                |
| Wire length (including connectors)                                                                                                                                                                                                 | 300mm, wire length can be customized |                |                |                |                |                |
| Connector                                                                                                                                                                                                                          | KSW-CN01                             |                |                |                |                |                |
| Working conditions                                                                                                                                                                                                                 |                                      |                |                |                |                |                |
| Maximum system voltage                                                                                                                                                                                                             | 1000V/1500V/DC(IEC)                  |                |                |                |                |                |
| Fusing current                                                                                                                                                                                                                     | 25A                                  |                |                |                |                |                |
| Static load                                                                                                                                                                                                                        | Snow load: 5400Pa/Wind load: 2400Pa  |                |                |                |                |                |
| Grounding resistance                                                                                                                                                                                                               | ≤ 0.1Ω                               |                |                |                |                |                |
| Safety level                                                                                                                                                                                                                       | II                                   |                |                |                |                |                |
| Insulation resistance                                                                                                                                                                                                              | ≥ 100M Ω                             |                |                |                |                |                |
| Packaging Information                                                                                                                                                                                                              |                                      |                |                |                |                |                |
| Container size                                                                                                                                                                                                                     | 40HQ                                 |                |                |                |                |                |
| Sheet/Tray                                                                                                                                                                                                                         | 31                                   |                |                |                |                |                |
| Pallets/Containers                                                                                                                                                                                                                 | 16                                   |                |                |                |                |                |
| Pieces/Container                                                                                                                                                                                                                   | 496                                  |                |                |                |                |                |
| Package size                                                                                                                                                                                                                       | 2497*1120*1235mm                     |                |                |                |                |                |
| Package weight                                                                                                                                                                                                                     | 1030kg                               |                |                |                |                |                |

Technical drawings

## Technical drawings



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## Suzhou Veichi Electric Co.,Ltd

NO.1000 Songjia Road,Guoxiang street, Wuzhong Economic and Technological Development Zone,Suzhou

Email: [overseas@veichi.com](mailto:overseas@veichi.com)

[Https: //www.veichi.com/](https://www.veichi.com/)

