

# VCS-144H-XXX-P

Electrical performance parameters	VCS-144H-530-P	VCS-144H-535-P	VCS-144H-540-P	VCS-144H-545-P	VCS-144H-550-P	VCS-144H-555-P
-----------------------------------	----------------	----------------	----------------	----------------	----------------	----------------

## Component performance under STC standard (tolerance: 0~+5W)

Maximum rated power (W)	530	535	540	545	550	555
Maximum power voltage (V)	41.32	41.48	41.64	41.80	41.96	42.11
Maximum power current (A)	12.83	12.90	12.97	13.04	13.11	13.18
Open circuit voltage (V)	49.32	49.46	49.60	49.76	49.92	50.08
Short circuit current (A)	13.72	13.79	13.86	13.93	14.00	14.06
Component efficiency (%)	20.51	20.70	20.89	21.09	21.28	21.48

## Component performance under the NOCT standard

Maximum rated power (W)	395	398	402	406	410	414
Maximum power voltage (V)	38.06	38.70	38.80	39.00	39.11	39.18
Maximum power current (A)	10.24	10.30	10.36	10.41	10.48	10.57
Open circuit voltage (V)	46.40	46.50	46.70	46.80	47.00	47.07
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%/°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/ m<sup>2</sup>, battery temperature 25 °C, spectral AM1.5, NOCT (nominal operating temperature of the module) irradiance 800W/m<sup>2</sup>, ambient temperature 20 °C, spectral AM1.5, wind speed 1m/s;

## Mechanical behavior

Specifications	Single crystal silicon 182X182mm
Battery arrangement	Single crystal 144 [2X (6X12)]
Component dimensions	2279 X 1134 X 35mm
Component weight	29kg
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

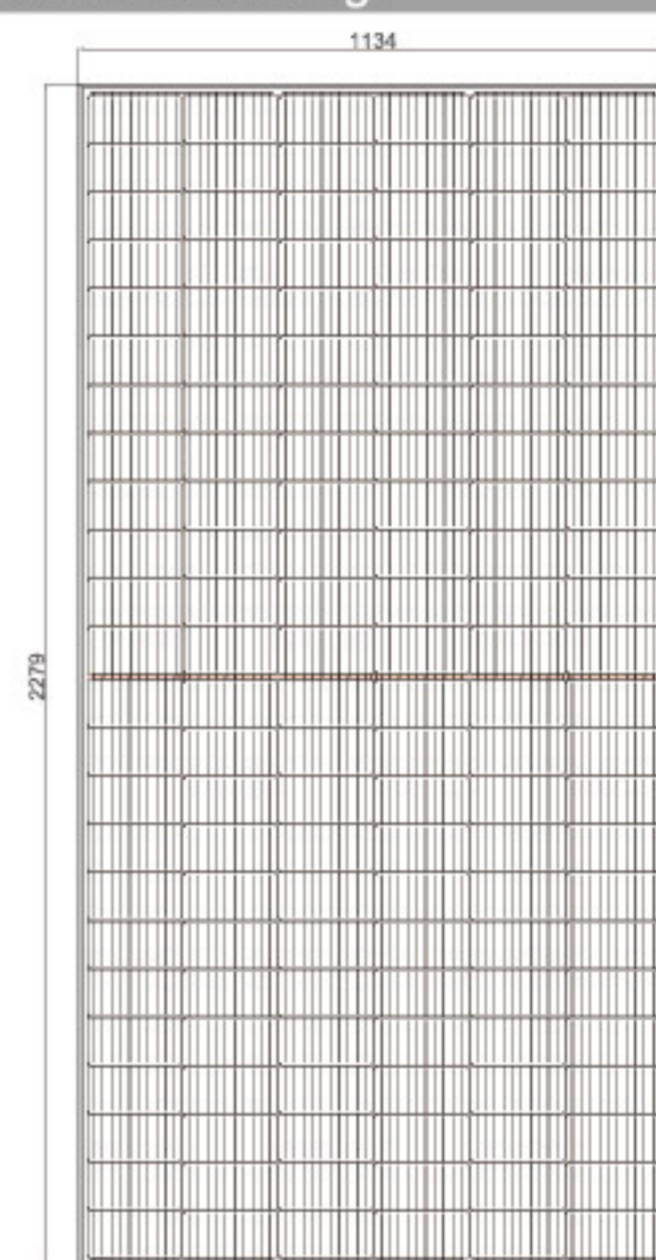
## Working conditions

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

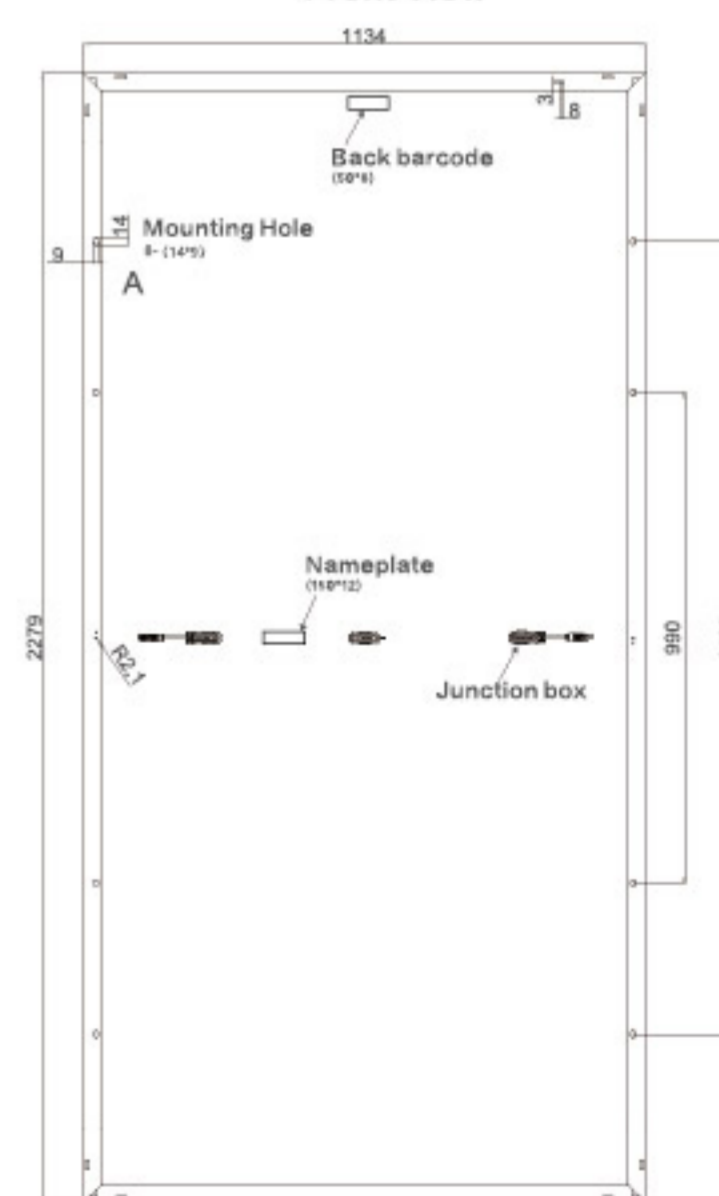
## Packaging Information

Container size	40HQ
Sheet/Tray	31
Pallets/Containers	20
Pieces/Container	620
Package size	2300*1120*1235mm
Package weight	939kg

## Technical drawings



Front View



Rear View

The technical parameters contained in this technical parameter document may deviate slightly, and VEICHI does not guarantee their complete accuracy. Due to continuous innovation, research and development, and product improvement, VEICHI has the right to, without prior notice, Adjust the information in the technical parameter file at any time. When signing a contract, the customer should obtain the latest version of technical parameters as part of a binding contract signed by both parties.