

VEICHI

VCS Series | 108H Monocrystalline Module



VCS-108H-XXX-D

Electrical performance parameters	VCS-108H-405-D	VCS-108H-410-D	VCS-108H-415-D	VCS-108H-420-D	VCS-108H-425-D	VCS-108H-430-D
Component performance under STC standard (tolerance: 0~+5W)						
Maximum rated power (W)	405	410	415	420	425	430
Maximum power voltage (V)	31.40	31.59	31.78	31.96	32.15	32.33
Maximum power current (A)	12.90	12.98	13.06	13.14	13.22	13.30
Open circuit voltage (V)	38.07	38.20	38.33	38.46	38.59	38.72
Short circuit current (A)	13.85	13.93	14.01	14.09	14.17	14.25
Component efficiency (%)	20.74	21.00	21.25	21.51	21.76	22.02
Component performance under the NOCT standard						
Maximum rated power (W)	309.8	313.5	317.3	321.1	325	328.7
Maximum power voltage (V)	29.45	29.60	29.70	29.90	30.00	30.20
Maximum power current (A)	10.52	10.60	10.68	10.75	10.82	10.89
Open circuit voltage (V)	36.20	36.30	36.40	36.50	36.60	36.80
Short circuit current (A)	11.16	11.23	11.30	11.36	11.42	11.49

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 108 [2X (9X6)]
Component dimensions	1722X 1134 X 30mm
Component weight	24.5kg
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

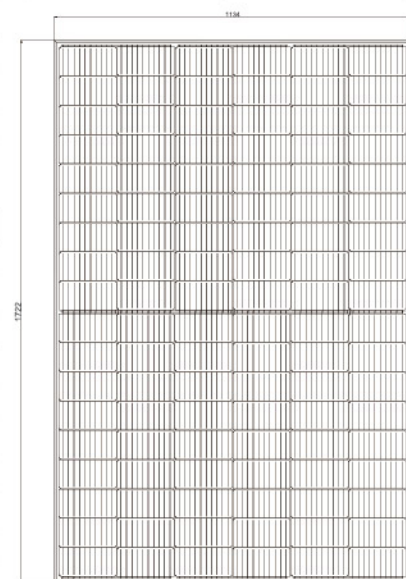
Working conditions

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

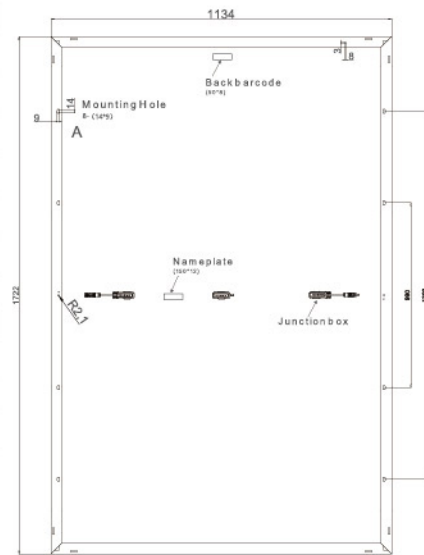
Packaging Information

Container size	40HQ
Sheet/Tray	36
Pallets/Containers	26
Pieces/Container	936
Package size	1740*1120*1235mm
Package weight	930kg

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.

VCS-108H-XXX-P

Electrical performance parameters	VCS-108H-390-P	VCS-108H-395-P	VCS-108H-400-P	VCS-108H-405-P	VCS-108H-410-P	VCS-108H-415-P
Component performance under STC standard (tolerance: 0~+5W)						
Maximum rated power (W)	390	395	400	405	410	415
Maximum power voltage (V)	30.64	30.84	31.01	31.21	31.45	31.61
Maximum power current (A)	12.73	12.81	12.90	12.98	13.04	13.13
Open circuit voltage (V)	36.85	36.98	37.07	37.23	37.32	37.45
Short circuit current (A)	13.61	13.70	13.79	13.87	13.95	14.02
Component efficiency (%)	19.97	20.22	20.48	20.74	20.99	21.25

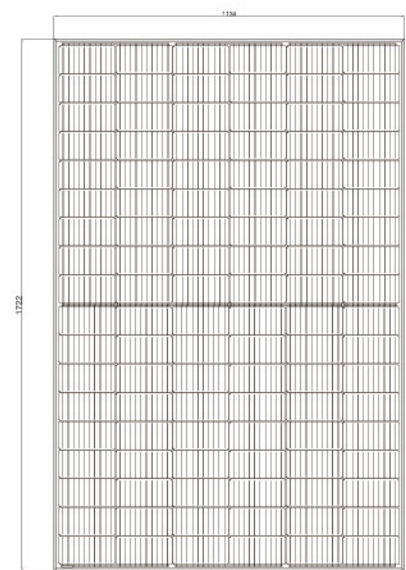
Component performance under the NOCT standard						
Maximum rated power (W)	294	298	302	306	310	314
Maximum power voltage (V)	28.87	29.08	29.26	29.47	29.72	29.89
Maximum power current (A)	10.18	10.25	10.32	10.38	10.43	10.50
Open circuit voltage (V)	34.62	34.75	34.88	35.12	35.23	35.37
Short circuit current (A)	10.89	10.96	11.03	11.10	11.16	11.22

Temperature Characteristic

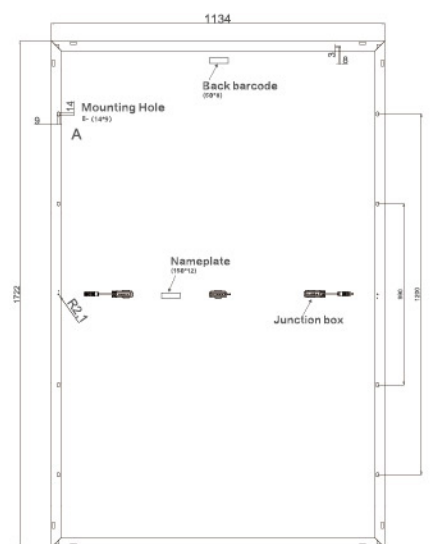
Maximum power temperature coefficient (Pmax)	-0.34%/°C
Open circuit voltage temperature coefficient (Voc)	-0.26%/°C
Short circuit voltage temperature coefficient (Isc)	-0.05%/°C
Working temperature	-40~ + 85°C
Rated operating cell temperature (NMOT)	42±2°C

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;

Technical drawings



Front View



Rear View

Mechanical behavior

Specifications	Single crystal silicon182X182mm
Battery arrangement	Single crystal 108 [2X (9X6)]
Component dimensions	1722X 1134 X 30mm
Component weight	21kg
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

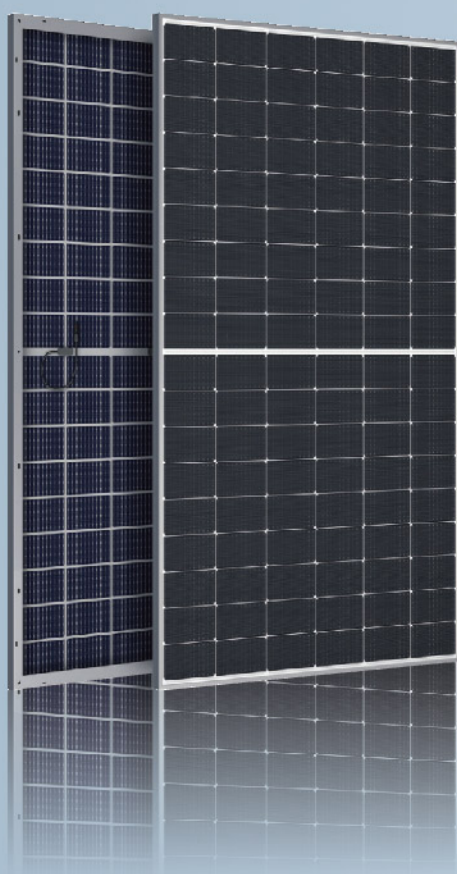
Working conditions

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	36
Pallets/Containers	26
Pieces/Container	936
Package size	1740*1120*1235mm
Package weight	770kg

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