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182–108 Monocrystalline Module

Product characteristics



16BB Half Cell Technology

New circuit design, lower internal current, lower internal current Resistance loss gallium doped silicon wafer, first year attenuation<1%, linear attenuation Minus $\leq 0.4\%$



Significantly reduce the risk of hot spots

Unique circuit design significantly reduces hot spot temperature and reduces work Rate loss increases component power generation



Lower electricity cost

Increase power generation by 3% and reduce cost per kilowatt hour



Excellent anti PID performance

TUV SGS has twice the industry standard PID resistance(Potential induced attenuation) test (85"C/85% RH 192 hours)



IP68 junction box

High standard waterproof performance, effective protection against harsh environments

Quality assurance



Comprehensive product and system certification

IEC 61215, IEC 61730

ISO9001: 2015/Quality Management System

ISO14001: 2015/Environmental Management Systems

ISO45001: 2018/Occupational Health and Safety Management System Certification

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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-E
Component performance under S	TC 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

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;

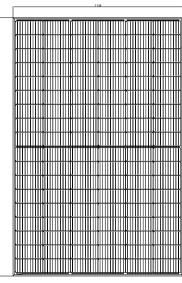
Mechanical behavior	
Specifications	N-TOPCON 182X182mm
Battery arrangement	N-TOPCON 108 [2X (9X6)]
Component dimensions	1722X 1134 X 30mm
Component weight	24.5kg
Component panel	2mm-2mm semi tempered glass
Component Border	Anodic oxygen film aluminum alloy
Junction box	IP68, 3 Diodes
Wireway	4.0 square 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	Ш
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

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.

Technical drawings



Front View

