

VEICHI

VCS Series | 144H

Monocrystalline Module

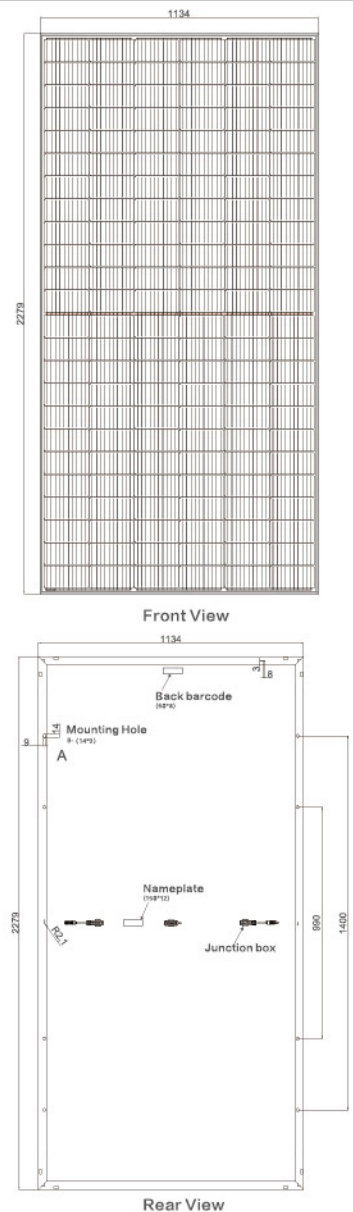


VCS-144H-XXX-D

Electrical performance parameters	VCS-144H-560-D	VCS-144H-565-D	VCS-144H-570-D	VCS-144H-575-D	VCS-144H-580-D	VCS-144H-585-D
Component performance under STC standard (tolerance: 0~+5W)						
Maximum rated power (W)	560	565	570	575	580	585
Maximum power voltage (V)	42.20	43.32	42.44	42.56	42.68	42.80
Maximum power current (A)	13.27	13.35	13.43	13.51	13.59	13.67
Open circuit voltage (V)	50.90	51.03	51.16	51.29	51.42	51.53
Short circuit current (A)	14.00	14.08	14.16	14.24	14.32	14.41
Component efficiency (%)	21.67	21.86	22.06	22.25	22.44	22.64
Component performance under the NOCT standard						
Maximum rated power (W)	426.9	430.7	434.6	438.4	442.1	446.2
Maximum power voltage (V)	39.80	39.90	40.10	40.20	40.30	40.42
Maximum power current (A)	10.72	10.79	10.85	10.91	10.97	11.04
Open circuit voltage (V)	48.30	48.50	48.60	48.70	48.80	48.92
Short circuit current (A)	11.29	11.35	11.42	11.48	11.55	11.62
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	N-TOPCON 182X182mm					
Battery arrangement	N-TOPCON 144 [2X (6X12)]					
Component dimensions	2279 X 1134 X 30mm					
Component weight	31.5kg					
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	20					
Pieces/Container	720					
Package size	2300*1120*1235mm					
Package weight	1190kg					

Technical drawings

Technical drawings



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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

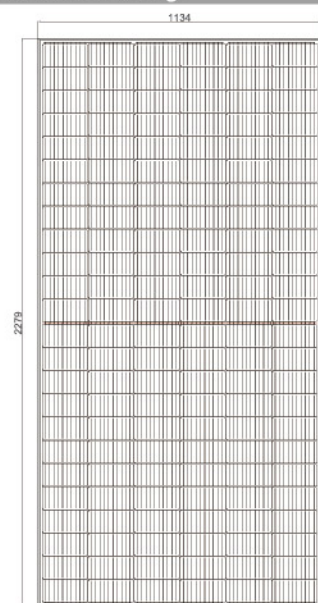
Temperature Characteristic	
Maximum power temperature coefficient (Pmax)	-0.34%/°C
Open circuit voltage temperature coefficient (Voc)	-0.26%/°C
Short circuit voltage temperature coefficient (Isc)	-0.05%/°C
Working temperature	-40~ + 85°C
Rated operating cell temperature (NMOT)	42±2°C
STC (standard test environment): irradiance 1000W/ 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	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

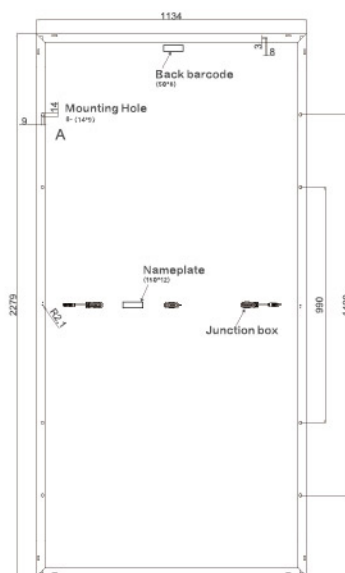
Working conditions	
Maximum system voltage	1000V/1500V/DC(IEC)
Fusing current	25A
Static load	Snow load: 5400Pa/Wind load: 2400Pa
Grounding resistance	≤ 0.1Ω
Safety level	II
Insulation resistance	≥ 100M Ω

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

Technical drawings

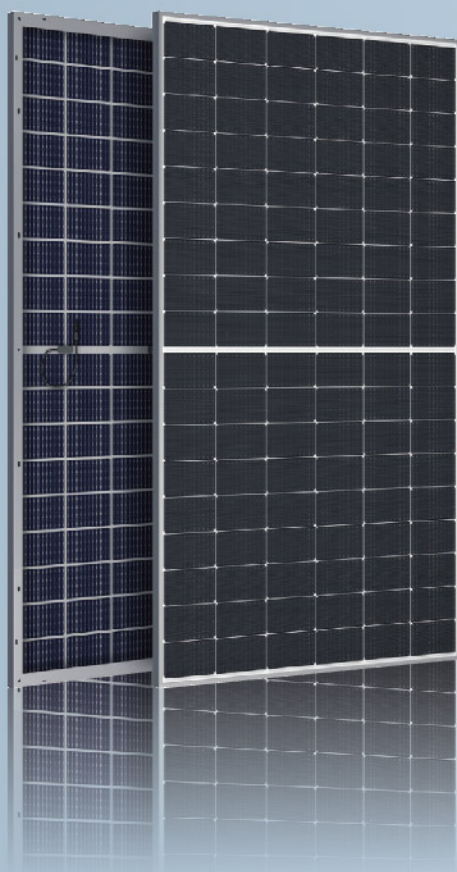


Front View



Rear View

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