

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
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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%/°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 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

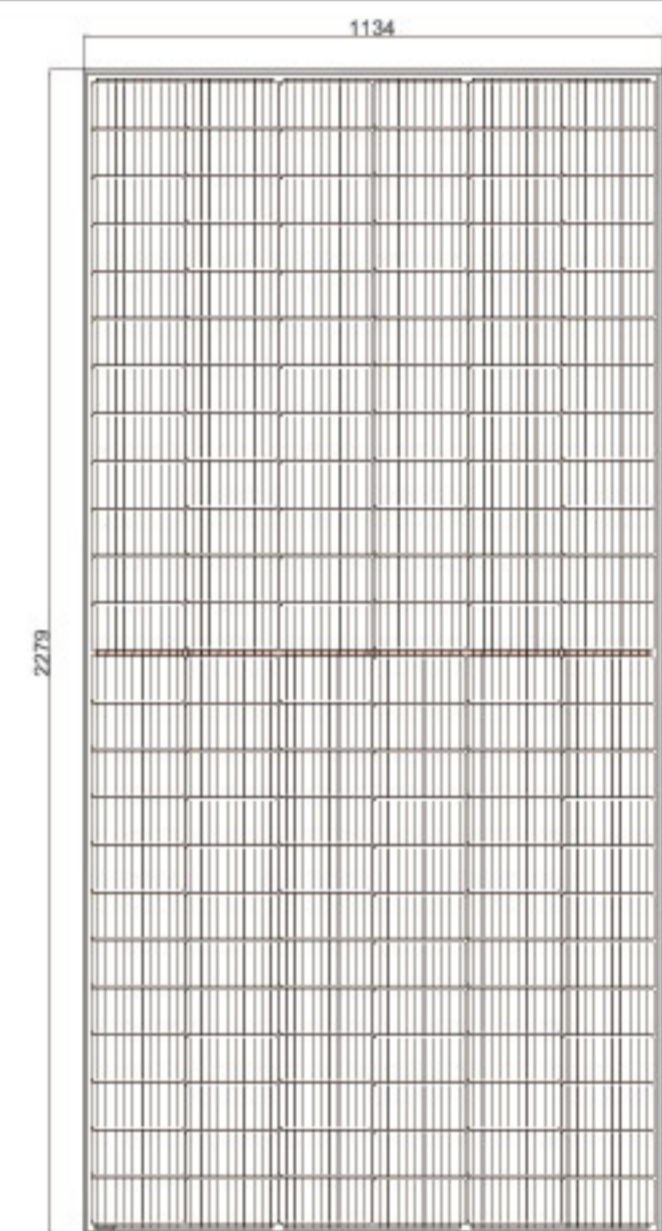
Working conditions

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

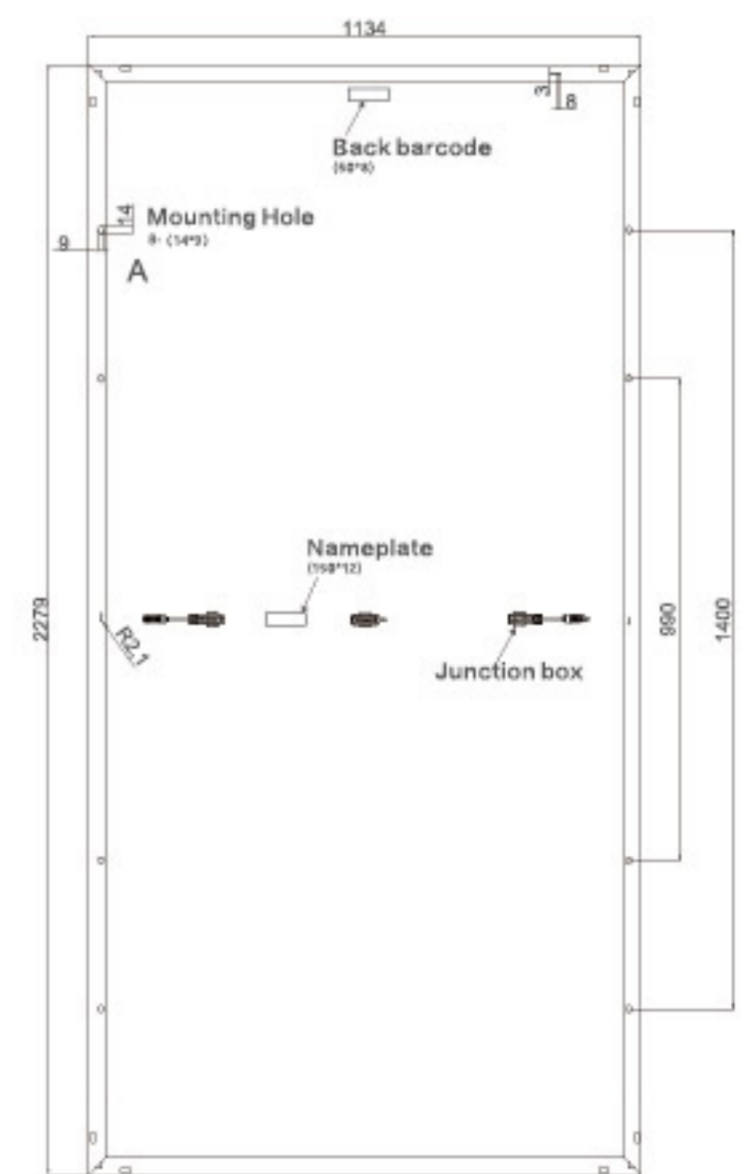
Packaging Information

Container size	40HQ
Sheet/Tray	36
Pallets/Containers	20
Pieces/Container	720
Package size	2300*1120*1235mm
Package weight	1190kg

Technical drawings



Front View



Rear View

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