

VEICHI

VCS Series

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
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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%/℃
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 °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

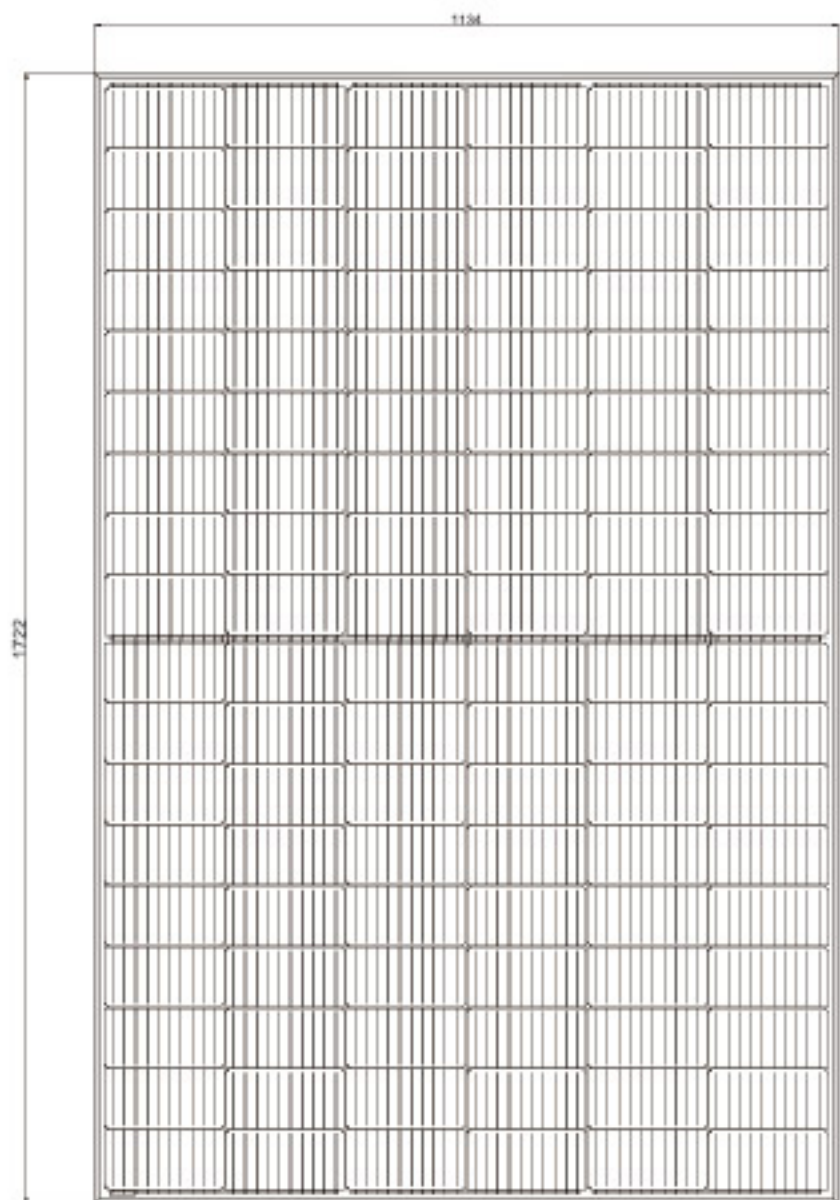
Working conditions

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

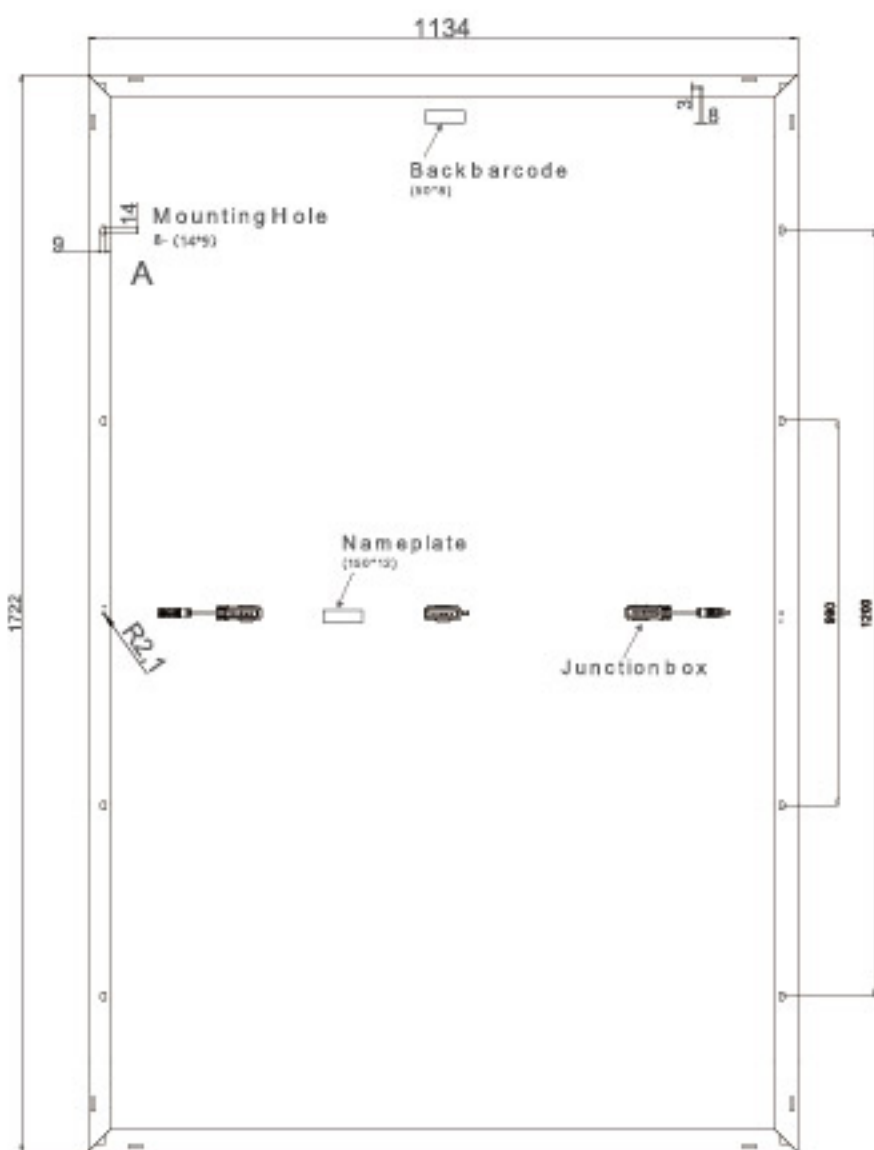
Packaging Information

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

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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%/℃
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 ℃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

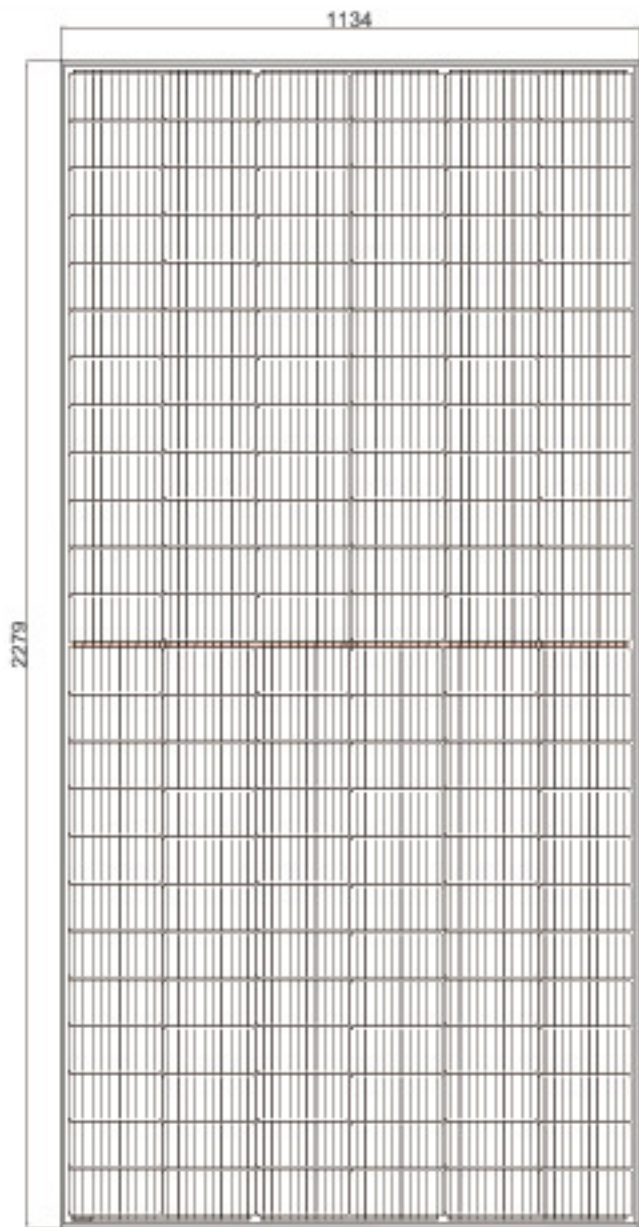
Working conditions

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

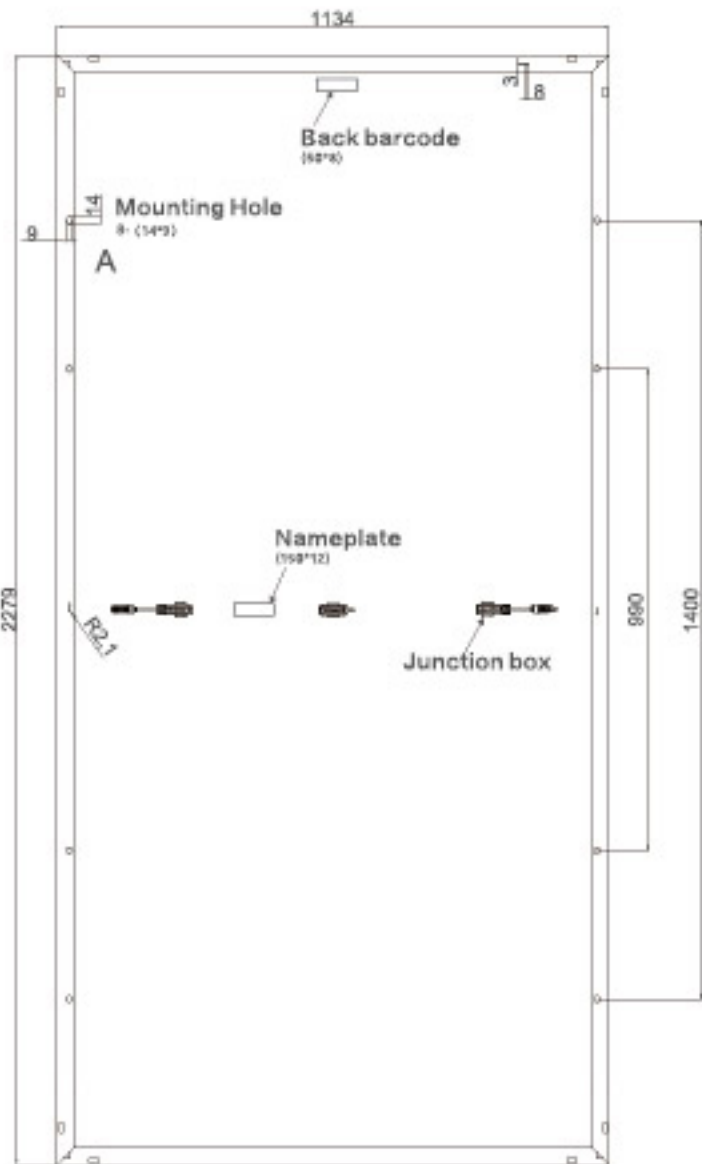
Packaging Information

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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VCS-156H-XXX-D

Electrical performance parameters	VCS-156H-605-D	VCS-156H-610-D	VCS-156H-615-D	VCS-156H-620-D	VCS-156H-625-D	VCS-156H-630-D
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Component performance under STC standard (tolerance: 0~+5W)

Maximum rated power (W)	605	610	615	620	625	630
Maximum power voltage (V)	44.66	44.78	44.90	45.02	45.14	45.26
Maximum power current (A)	13.55	13.62	13.70	13.77	13.85	13.92
Open circuit voltage (V)	53.86	53.98	54.10	54.22	54.34	54.46
Short circuit current (A)	14.19	14.26	14.33	14.40	14.47	14.54
Component efficiency (%)	21.64	21.82	22.00	22.18	22.36	22.54

Component performance under the NOCT standard

Maximum rated power (W)	461	464.5	468.4	471.7	475.9	479.5
Maximum power voltage (V)	42.30	42.50	42.60	42.70	42.90	43.00
Maximum power current (A)	10.89	10.93	10.99	11.04	11.10	11.15
Open circuit voltage (V)	51.00	51.20	51.40	51.50	51.60	51.70
Short circuit current (A)	11.44	11.50	11.56	11.61	11.67	11.72

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 ℃C, spectral AM1.5, wind speed 1m/s;

Mechanical behavior

Specifications	N-TOPCON 182X182mm
Battery arrangement	N-TOPCON 156 [2X (6X13)]
Component dimensions	2465 X 1134 X 30mm
Component weight	34.6kg
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

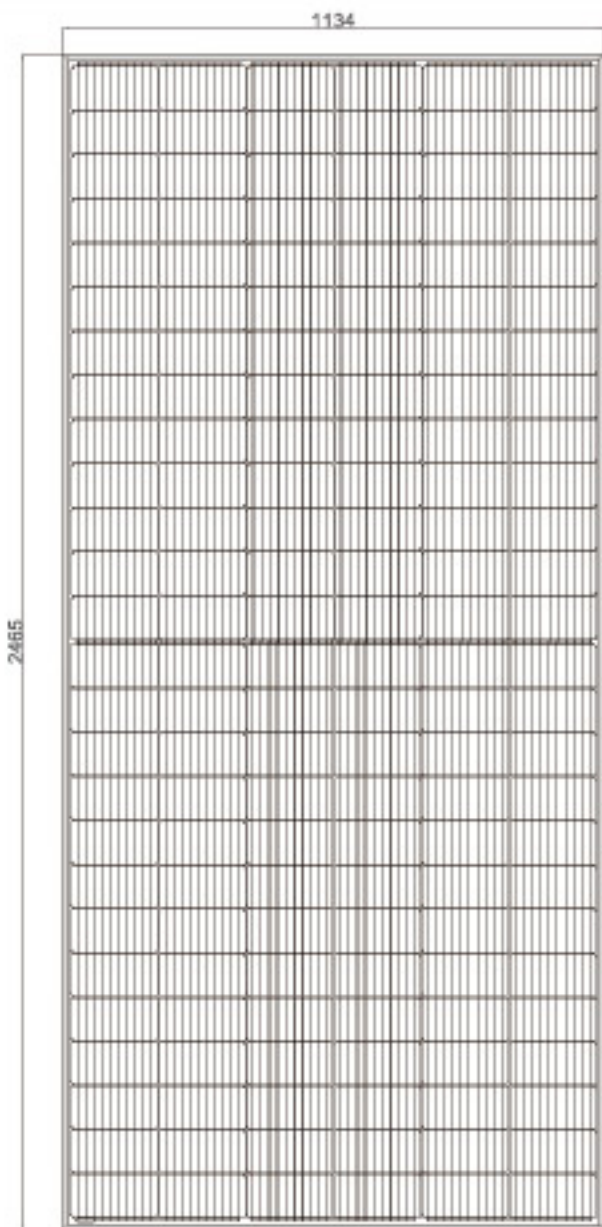
Working conditions

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

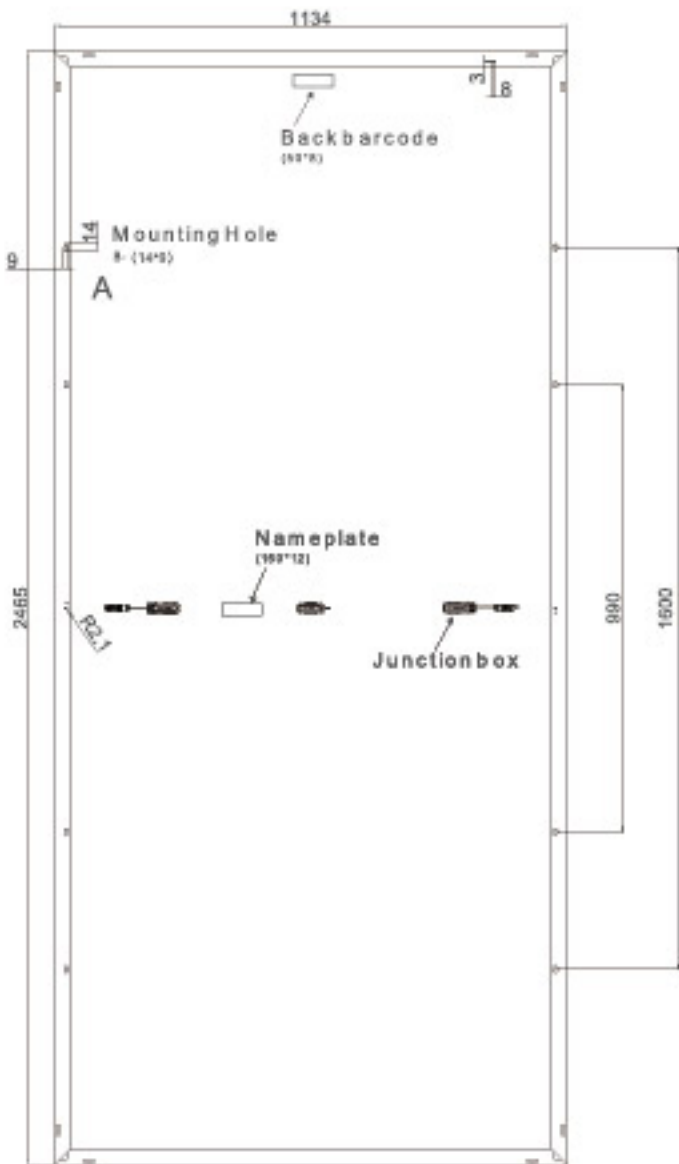
Packaging Information

Container size	40HQ
Sheet/Tray	36
Pallets/Containers	16
Pieces/Container	496
Package size	2497*1120*1235mm
Package weight	1300kg

Technical drawings



Front View



Rear View

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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-415P
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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

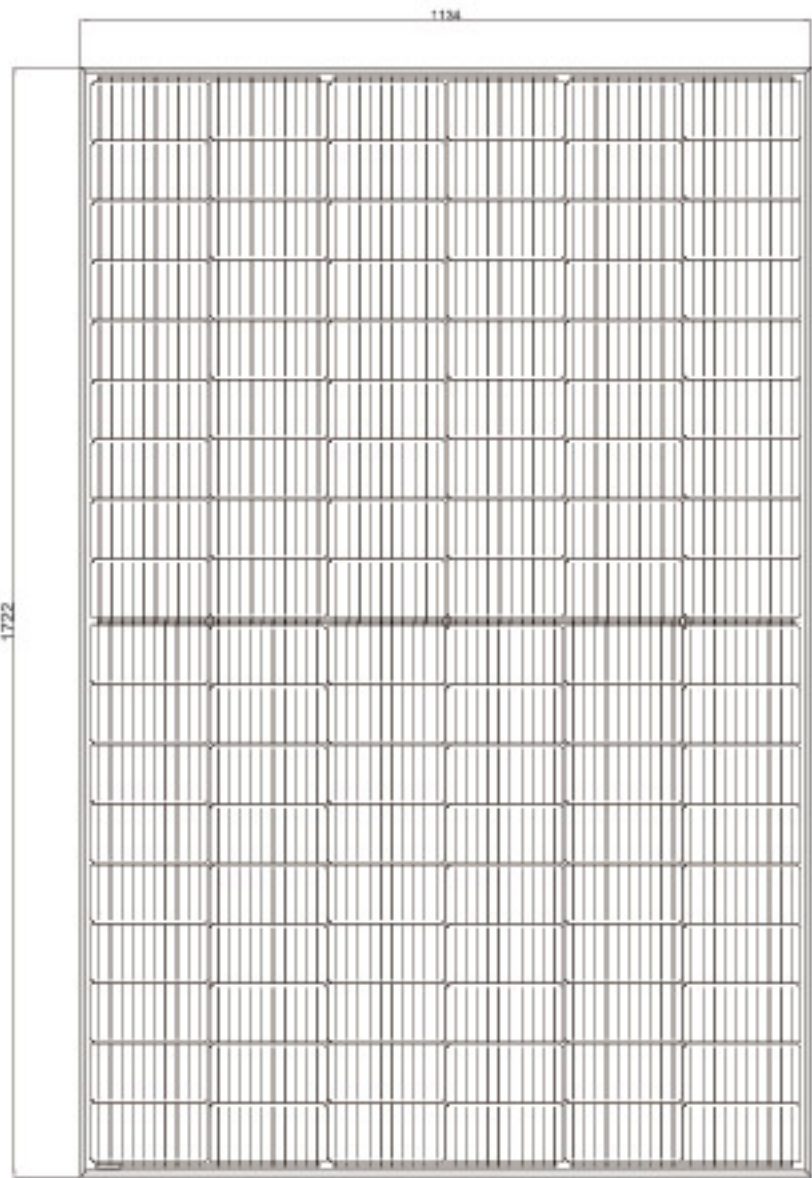
Maximum power temperature coefficient (Pmax)	-0.34%/℃
Open circuit voltage temperature coefficient (Voc)	-0.26%/℃
Short circuit voltage temperature coefficient (Isc)	-0.05%/℃
Working temperature	-40~ + 85℃
Rated operating cell temperature (NMOT)	42±2℃

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;

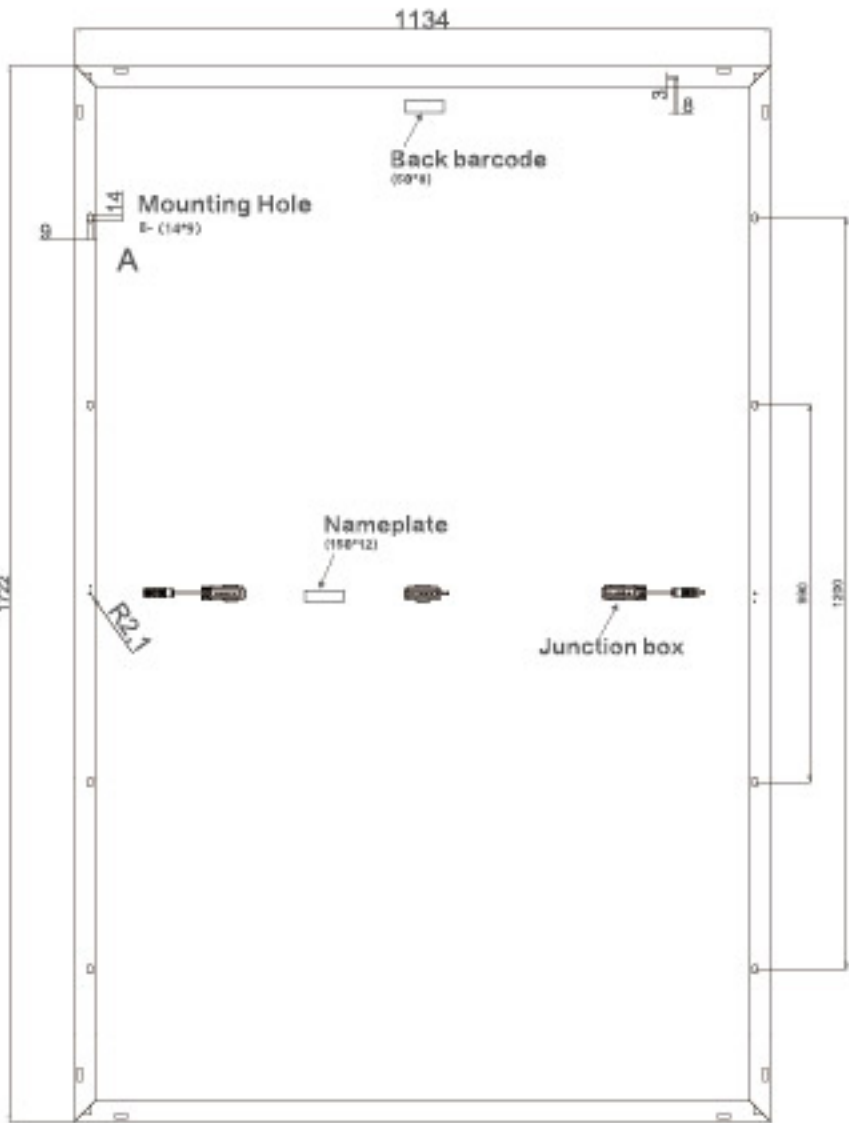
Mechanical behavior

Specifications	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

Technical drawings



Front View



Rear View

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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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
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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%/℃
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℃

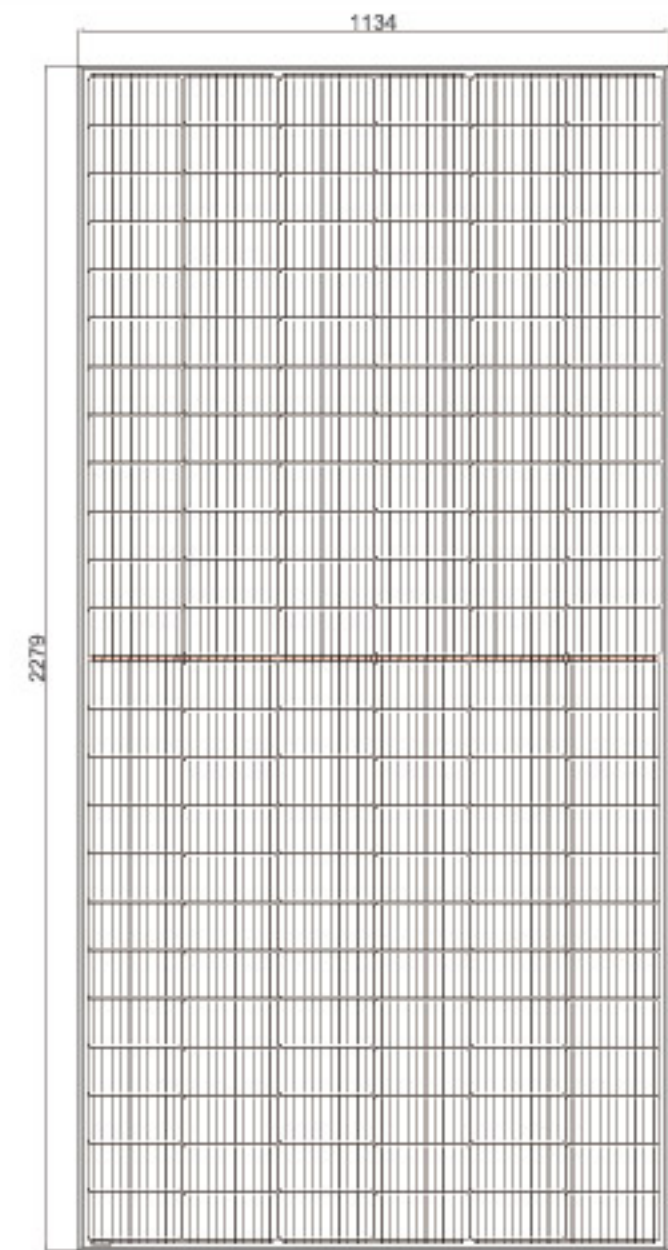
STC (standard test environment): irradiance 1000W/ m² , battery temperature 25 ℃ ,spectral AM1.5, NOCT (nominal operating temperature of the module) irradiance800W/m², ambient temperature 20 ℃, spectral AM1.5, wind speed 1m/s;

Mechanical behavior	
Specifications	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

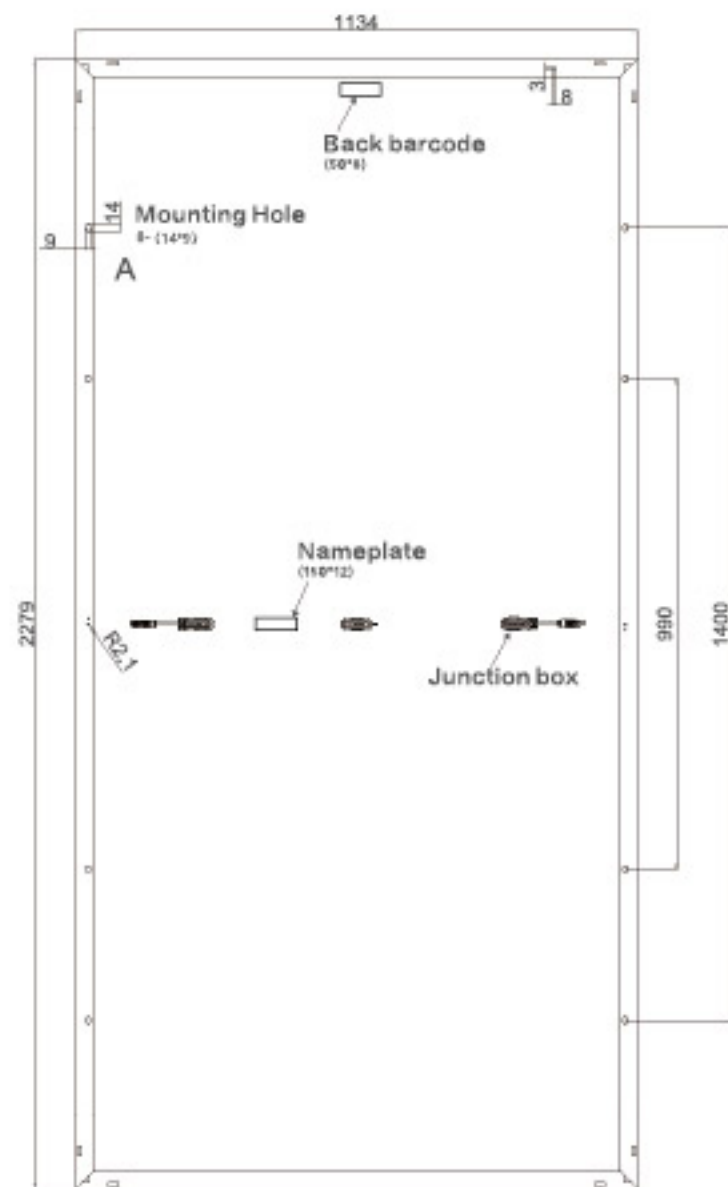
Working conditions	
Maximum system voltage	1000V/1500V/DC(IEC)
Fusing current	25A
Static load	Snow load: 5400Pa/Wind load: 2400Pa
Grounding resistance	≤ 0.1Ω
Safety level	II
Insulation resistance	≥ 100M Ω

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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VCS-156H-XXX-P

Electrical performance parameters	VCS-156H-575-P	VCS-156H-580-P	VCS-156H-585-P	VCS-156H-590-P	VCS-156H-595-P	VCS-156H-600-P
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Component performance under STC standard (tolerance: 0~+5W)

Maximum rated power (W)	575	580	585	590	595	600
Maximum power voltage (V)	44.20	44.35	44.56	44.80	45.05	45.30
Maximum power current (A)	13.01	13.08	13.13	13.17	13.21	13.25
Open circuit voltage (V)	53.44	53.11	53.20	53.33	53.40	53.50
Short circuit current (A)	13.72	13.84	13.88	13.93	13.98	14.03
Component efficiency (%)	20.57	20.75	20.93	21.11	21.29	21.46

Component performance under the NOCT standard

Maximum rated power (W)	428	432	436	440	444	448
Maximum power voltage (V)	41.08	41.91	42.11	42.23	42.37	42.47
Maximum power current (A)	10.24	10.31	10.36	10.42	10.48	10.55
Open circuit voltage (V)	50.30	50.40	50.60	50.70	50.80	50.90
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%/℃
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 °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 156 [2X (6X13)]
Component dimensions	2465 X 1134 X 35mm
Component weight	31.5kg
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

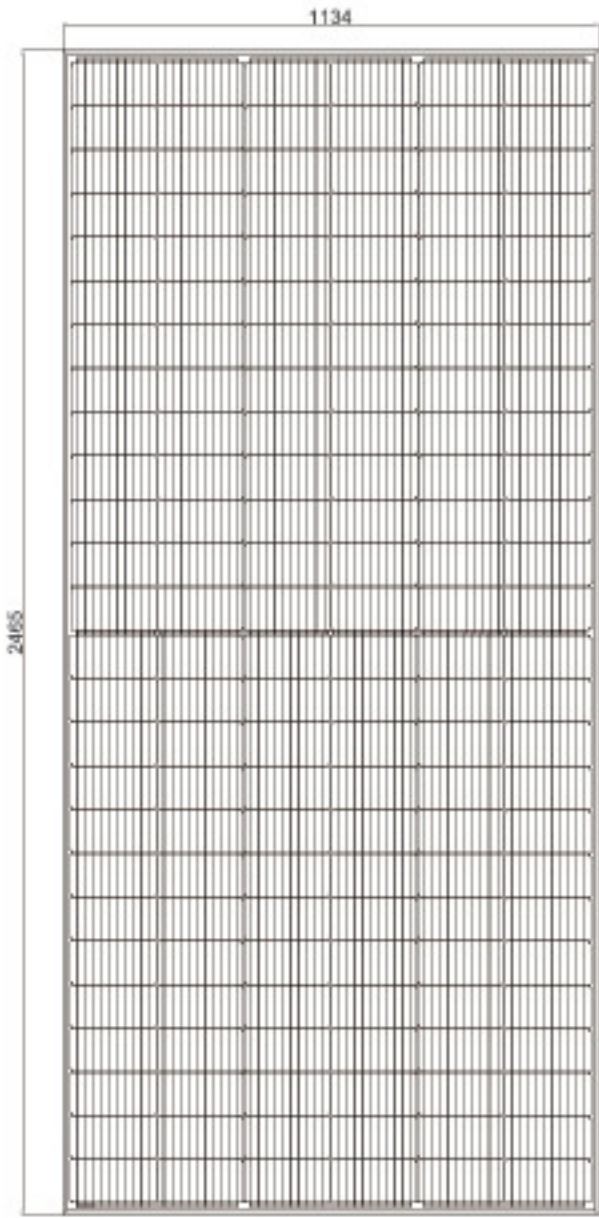
Working conditions

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

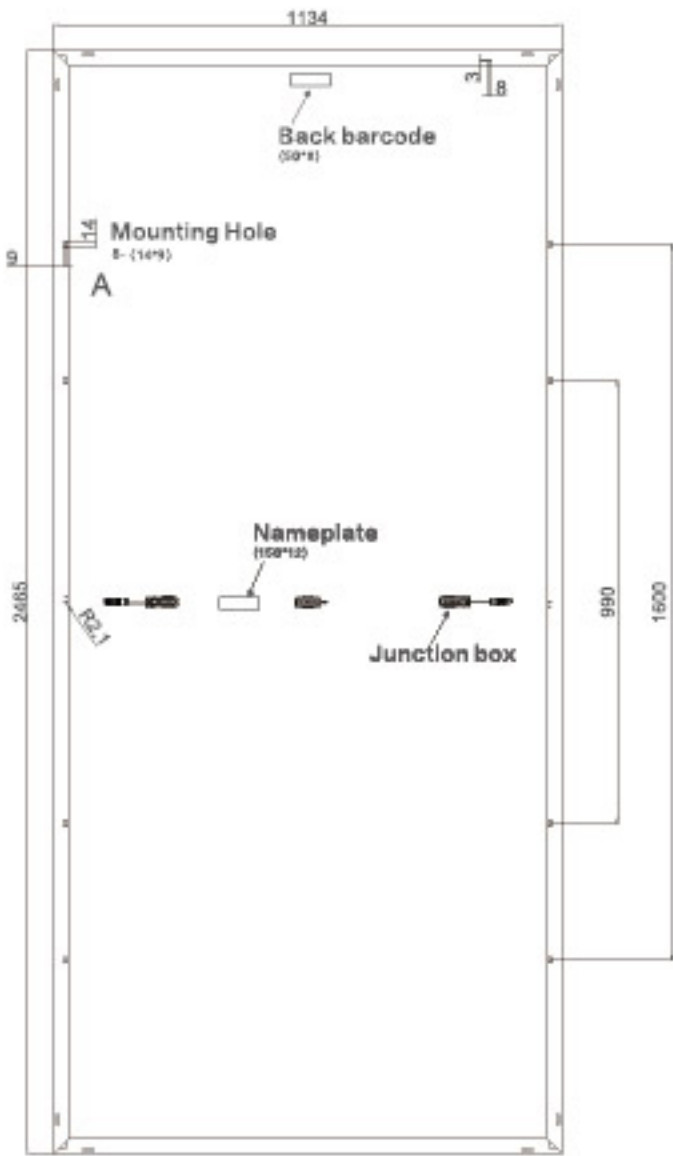
Packaging Information

Container size	40HQ
Sheet/Tray	31
Pallets/Containers	16
Pieces/Container	496
Package size	2497*1120*1235mm
Package weight	1030kg

Technical drawings

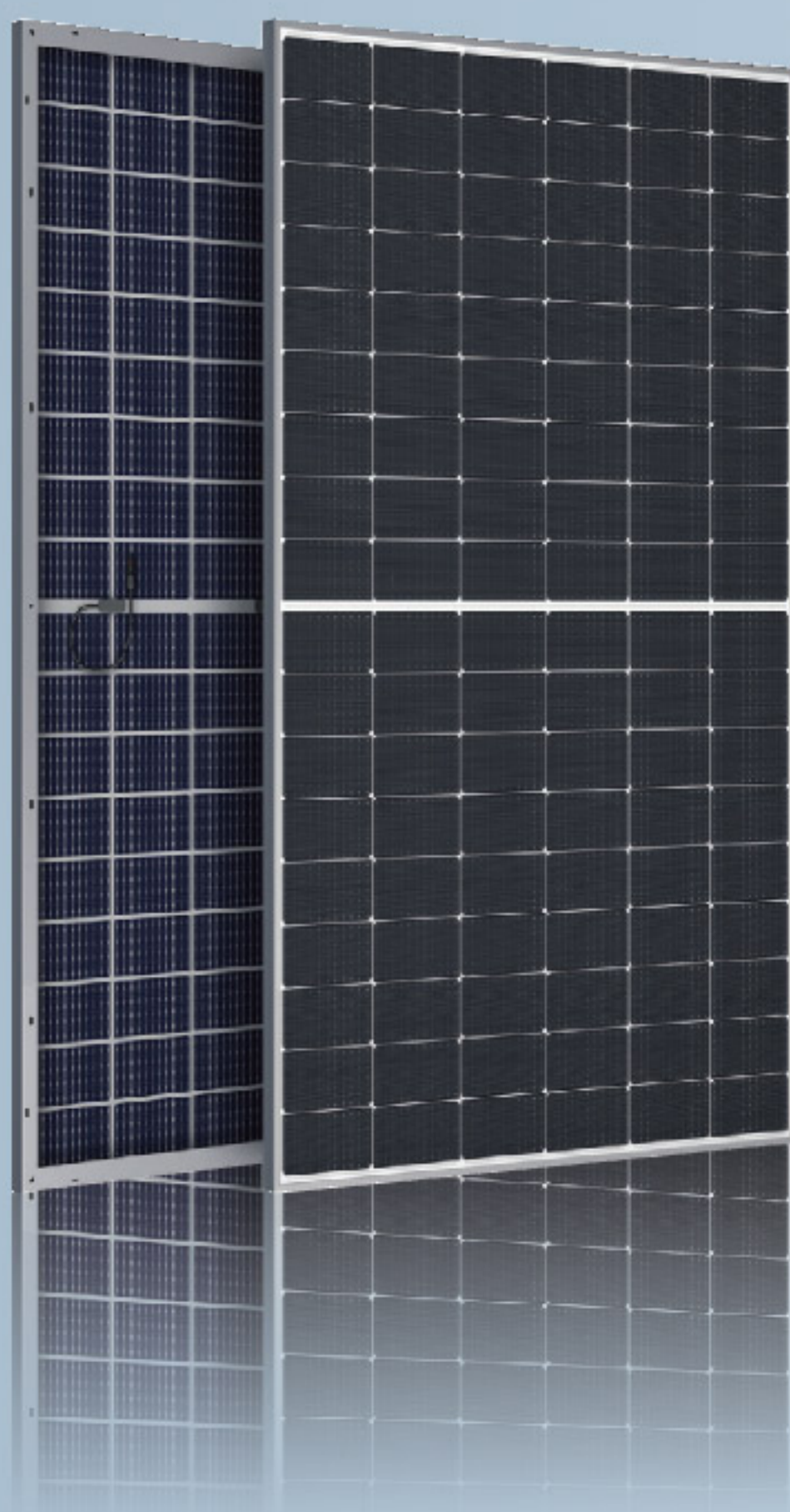


Front View



Rear View

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