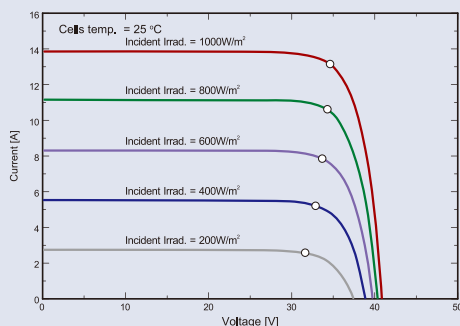
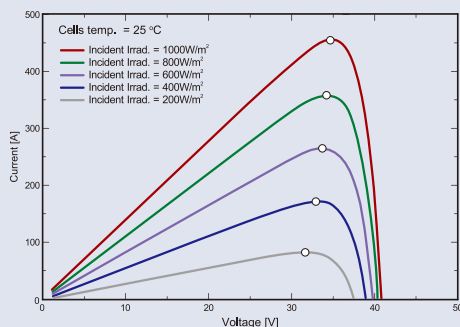
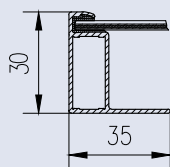
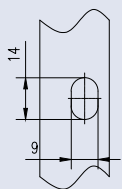
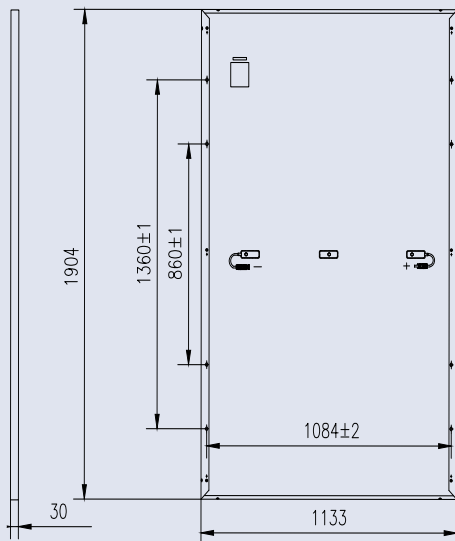




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Electrical Characteristics (STC*)

Maximum Power at STC (Pmp)	440	445	450	455	460
Maximum Power Voltage (Vmp)	33.80	34.10	34.30	34.50	34.70
Maximum Power Current (Imp)	12.99	13.05	13.12	13.19	13.25
Open Circuit Voltage (Voc)	39.97	40.30	41.25	40.70	41.00
Short Circuit Current (Isc)	13.72	13.78	13.85	13.92	13.98
Module Efficiency at STC (nm)	20.30%	20.60%	20.80%	21.00%	21.30%

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum.
Power tolerance: ±5%

Electrical Characteristics (NMOT*)

Maximum Power at STC (Pmp)	321	325	329	332	336
Maximum Power Voltage (Vmp)	30.60	30.70	30.90	31.10	31.30
Maximum Power Current (Imp)	10.51	10.57	10.63	10.68	10.73
Open Circuit Voltage (Voc)	36.30	36.50	36.70	36.90	37.10
Short Circuit Current (Isc)	11.07	11.13	11.19	11.24	11.29

NOCT: 800W/m² irradiance, 20°C environment temperature, 1m/s wind speed.

Mechanical Specifications

Solar Cells	PERC Mono crystalline 182×91mm
External Dimensions	1904×1133×30mm(L×W×H)
Front Glass	3.2mm AR coating tempered glass, low iron
Weight	23Kg±5%
Output Cable	4.0 mm ² , cable length 1100mm
Connector	MC4 Compatible
Junction Box	IP 67, 3 diodes
Frame	Anodized aluminium alloy

Temperature Characteristics

Isc Temperature Coefficient	+0.05%/°C
Voc Temperature Coefficient	-0.30%/°C
Pmax Temperature Coefficient	-0.35%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

Operating Characteristics

Max. system voltage	DC1500V
Limiting reverse current	25A
Operating temperature range	-40°C~85°C
Max. static load front (e.g., snow)	3600Pa
Max. static load back (e.g., wind)	1600Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

Package

Container	40'HQ
Pieces Per Big Pallet	72pcs panels (36+36)
Big Pallets Per Container	12
Pieces Per Container	864pcs panels