

Electrical Characteristics

Module Type	HN18N-72H570W		HN18N-72H575W		HN18N-72H580W		HN18N-72H585W		HN18N-72H590W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	570	432	575	436	580	440	585	445	590	449
Maximum Power Voltage (Vmp)	42.80	40.20	43.00	40.40	43.20	40.60	43.40	40.80	43.60	41.00
Maximum Power Current (Imp)	13.32	10.74	13.38	10.79	13.43	10.84	13.48	10.91	13.54	10.96
Open-circuit Voltage (Voc)	51.00	48.70	51.20	48.90	51.40	49.10	51.60	49.30	51.80	49.50
Short-circuit Current (Isc)	14.11	11.38	14.17	11.42	14.23	11.47	14.29	11.53	14.35	11.59
Module Efficiency(%)	22.07%		22.26%		22.45%		22.65%		22.84%	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
 *Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
No. of Cells	144 [2 x (12 x 6)]
Module Dimensions	2278*1134*30mm
Weight	28.5kg
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP68
Output Cable	4.0mm ²
(Including Connector)	Length Portrait:300/300mm (can be customized)
Connector	MC4 Compatible

Temperature Ratings

NMOT (Nominal operating cell temperature)	42°C(±2°C)
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

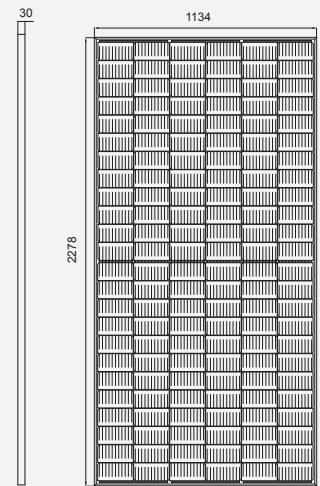
Packaging

Pcs per Pallet: 36
 Pcs per 40' HC: 720

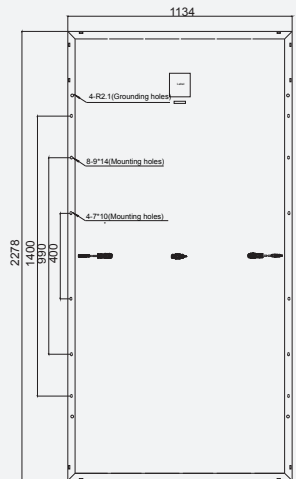
Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
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Dimensions (Unit: mm)

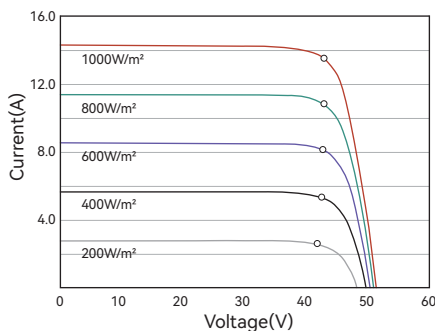


Front View



Back View

I-V Curves of PV Module (580W)



P-V Curves of PV Module (580W)

