

# RT-455W-166M/144 HALF CELL PERC

Cell: 166\*166mm (144 half cell PERC)

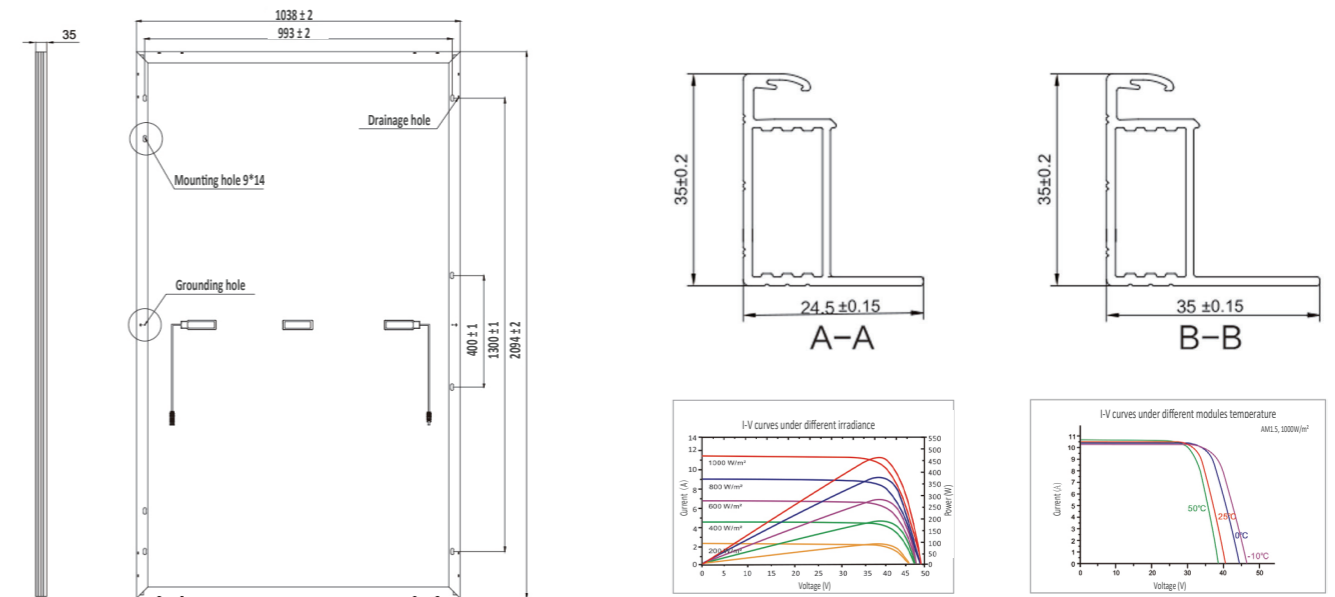
**20.96%**  
Max Module Efficiency

**1500VDC**  
Max System Voltage

**430-455Wp**  
output power range

**2094x1038x35mm**  
Modules size

## ENGINEERING DRAWINGS

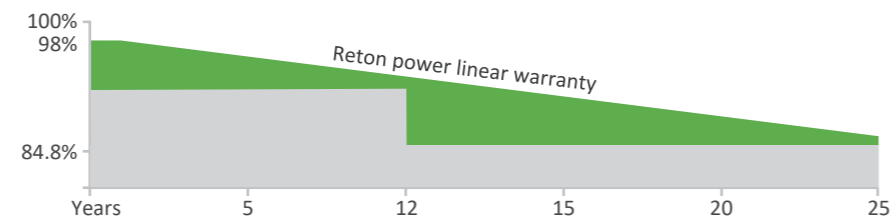


## Main Features:

- Excellent low temperature coefficient
- Excellent low-light power generation performance
- Pass the PID test under harsh conditions
- Modules current classification to reduce mismatch loss
- Two EL tests to ensure component quality
- Positive tolerance of modules power
- Withstand harsher environments  
Anti-reflective and easy-to-clean, minimizing power generation losses from stains and dust  
Passed salt spray, ammonia and sand dust tests, suitable for seaside, farm, desert and other environments  
Passed 2400Pa wind load and 5400Pa snow load certification

According to the applicable Henan Reton power Limited Warranty Statement.

- Linear Performance Warranty
- Standard Performance Warranty



Model	RT-430W-166/144	RT-435W-166/144	RT-440W-166/144	RT-445W-166/144	RT-450W-166/144	RT-455W-166/144
<b>SPECIFICATIONS ( STC )</b>						
Maximum Power (Pmax/W)	430	435	440	445	450	455
Open-Circuit Voltage (Voc/V)	48.70	49.00	49.20	49.40	49.60	49.80
Short-Circuit Current (Isc/A)	11.23	11.31	11.39	11.46	11.53	11.61
Operating Voltage (Vmp/V)	40.30	40.50	40.70	40.80	41.00	41.20
Operating Current (Imp/A)	10.67	10.74	10.82	10.90	10.98	11.06
Module Efficiency	19.78	20.01	20.26	20.46	20.71	20.96
<b>MECHANICAL SPECIFICATION</b>						
Cell Type	Monocrystalline					
Cell Dimensions	166mmx166mm					
Cell Arrangement	144 (6*12+6*12)					
Module Dimensions	2094*1038*35mm					
Weight	24.59kg					
Front glass	Tempered glass					
Frame	Anodized Aluminium Alloy					
Junction Box	PV-RM01,IP68,1500VDC,IP68					
No. of Bypass Diodes	3					
Cable Length	4.0mm2(12AWG),positive pole (+) 300mm,negative pole(-) 1000mm (including connector)					
Cable Cross Section Size	4.0mm2 (12AWG)					
Connector	MC4					
<b>Temperature parameters &amp; application environment</b>						
NMOT	44°C±2°C					
Open-circuit voltage temperature coefficient (β)	0.27%/°C					
Short-circuit current temperature coefficient (α)	0.04%/°C					
Temperature Coefficient Pmax	-0.36%/°C					
Operating temperature range	-40°C~+85°C					
Max system voltage	1500VDC					
Max fuse rated current	20A					
Limited reverse current	30A					
<b>Packaging</b>						
Container Type	40ft(HQ)					
Amount	660pcs					
Pieces/box	30					
Number of boxes	22					
Packing box size (L*W*H)	2120*1120*1190					
Gross weight per box (kg)	755					