

MONO PERC HALF CELL MODULE

SEMI+MBB

SL4M144
435-450 WATT

HIGHER POWER DENSITY
 · Output up to 450watt on 2.174M²
 · Module efficiency high to 20.7%
 · Gain more solar power per square meter

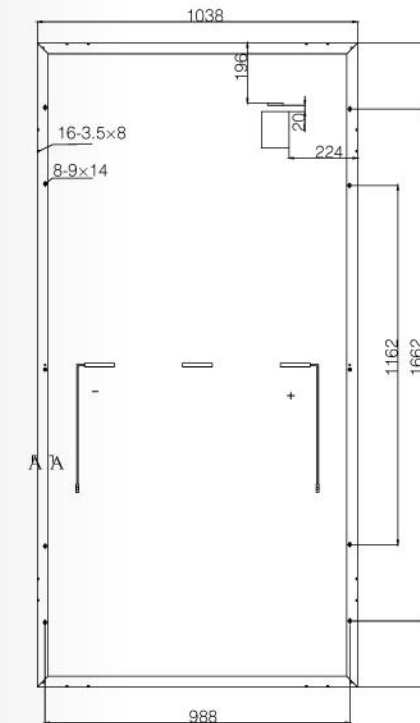
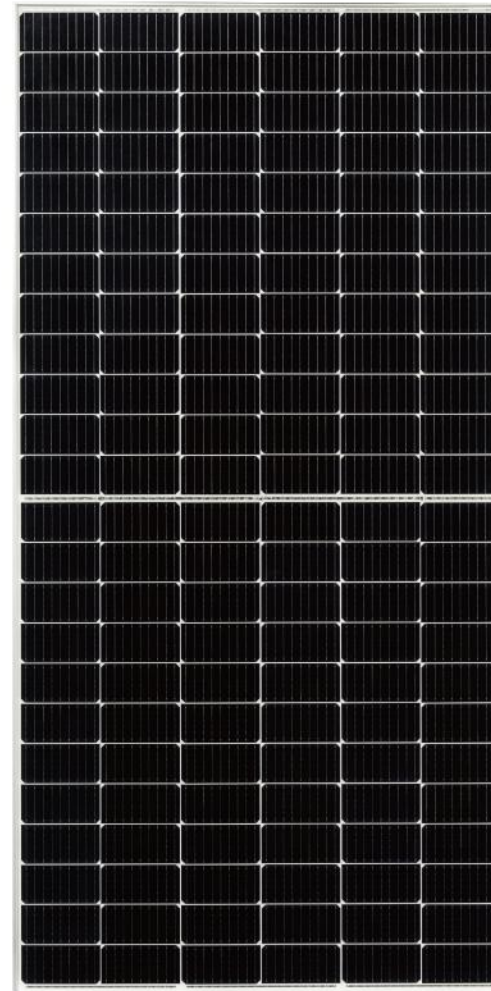
SEMI+MBB
 · Semi design deduce working temperature of operation and minimize hot-spot risk
 · MBB design deduce cover of busbars and improve current collection ability on windy days
 · Improve the output/watt

LIGHTER BUT MORE RELIABLE
 · Modules are much lighter
 · Thicker frames ensure modules much stronger

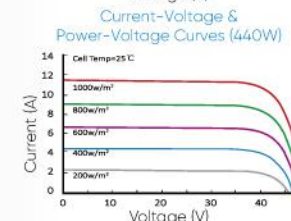
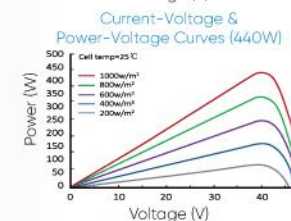
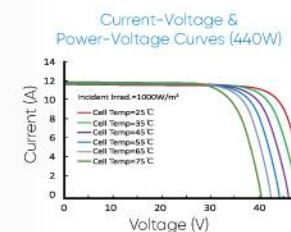
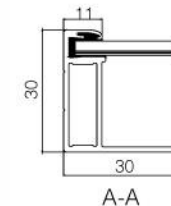
APPLIED UNDER STRICT CONDITIONS
 · Modules could be applied under ammonia, salt mist, high temperature, high humidity condition

IP68
 · IP68 junction boxes improve water-proof performance

EXCELLENT FIRE-PROOF PERFORMANCE
 · Modules have passed anti-fire test



Back overview



ELECTRICAL DATA (STC)				
Rated Power In Watts-Pmax (Wp)	435	440	445	450
Maximum Power Voltage-Vmpp (V)	40.90	41.10	41.30	41.50
Maximum Power Current-Impp (A)	10.64	10.71	10.78	10.85
Open Circuit Voltage-Voc (V)	48.70	48.90	49.10	49.30
Short Circuit Current-Isc (A)	11.39	11.46	11.53	11.60
Module Efficiency (%)	20.0%	20.2%	20.5%	20.7%

STC: Irradiation 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA (NMOT)				
Maximum Power-Pmax (Wp)	325	329	332	336
Maximum Power Voltage-Vmpp (V)	38.1	38.3	38.5	38.6
Maximum Power Current-Impp (A)	8.53	8.59	8.64	8.70
Open Circuit Voltage-Voc (V)	45.7	45.8	46.0	46.2
Short Circuit Current-Isc (A)	9.21	9.27	9.33	9.38

NOCT: Irradiation: 800 W/m², ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s

MECHANICAL CHARACTERISTICS	
Solar Cells	Monocrystalline, 9BB
Cell Configuration	144 cells (6 x 12 x 2)
Module Dimensions	2094 x 1038 x 30 mm
Weight	23 kg
Glass	High Transmission, Low Iron, Tempered ARC Glass
Back Sheet	White Back-sheet
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm ² , Positive (+) 900mm, Negative (-) 900mm
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS	
Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.27% / °C
Temperature Coefficient of Isc	0.048% / °C
Temperature Coefficient of Pmax	-0.35% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A