

# MONO PERC HALF CELL MODULE

## SEMI+MBB

SL5M108  
400-415 WATT

**HIGHER POWER DENSITY**  
 • Output up to 415watt on 1.952M<sup>2</sup>  
 • Module efficiency high to 21.3%  
 • Gain more solar power per square meter

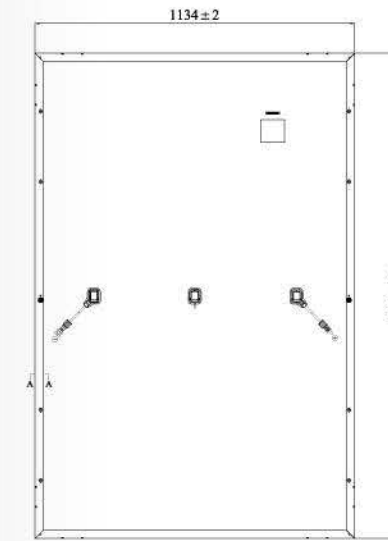
**SEMI+MBB**  
 • Semi design deduce working temperature of operation and minimize hot-spot risk  
 • MBB design deduce cover of busbars and improve current collection ability on windy days  
 • Improve the output/watt

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

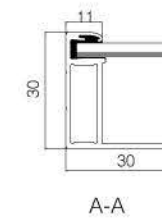
**APPLIED UNDER STRICT CONDITIONS**  
 • Modules could be applied under ammonia, salt mist, high temperature, high humidity condition

**IP68**  
 • IP68 junction boxes improve water-proof performance

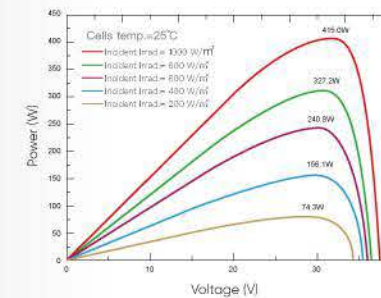
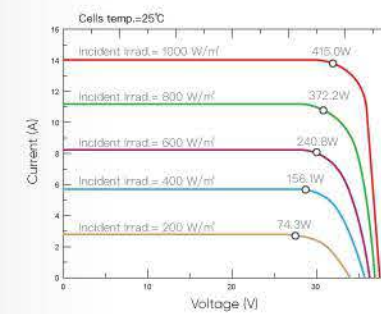
**EXCELLENT FIRE-PROOF PERFORMANCE**  
 • Modules have passed anti-fire test



Back overview



Current-Voltage & Power-Voltage Curves (SL5M108)



### ELECTRICAL DATA (STC)

Rated Power In Watts-Pmax (Wp)	400	405	410	415
Maximum Power Voltage-Vmpp (V)	31.01	31.23	31.44	31.66
Maximum Power Current-Impp (A)	12.90	12.97	13.04	13.11
Open Circuit Voltage-Voc (V)	37.05	37.20	37.35	37.50
Short Circuit Current-Isc (A)	13.79	13.86	13.93	14.00
Module Efficiency (%)	20.5%	20.7%	21.0%	21.3%

STC: Irradiation 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

### ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp)	302	306	310	314
Maximum Power Voltage-Vmpp (V)	28.95	29.23	29.50	29.74
Maximum Power Current-Impp (A)	10.43	10.47	10.51	10.55
Open Circuit Voltage-Voc (V)	30.90	31.19	31.48	31.61
Short Circuit Current-Isc (A)	11.05	11.09	11.13	11.17

NMOT: Irradiation: 800 W/m<sup>2</sup>, ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s

### MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline, 10BB
Cell Configuration	108 cells (6 x 9 x 2)
Module Dimensions	1722 x 1134 x 30 mm
Weight	21.5 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 <sup>2</sup> , 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