

## Mono-crystalline Solar Module

305W~320W

SL220-20M 320 | 315 | 310 | 305  
(1000V | 1500V)

### BENEFITS



Higher output



PID free



Excellent shading tolerance



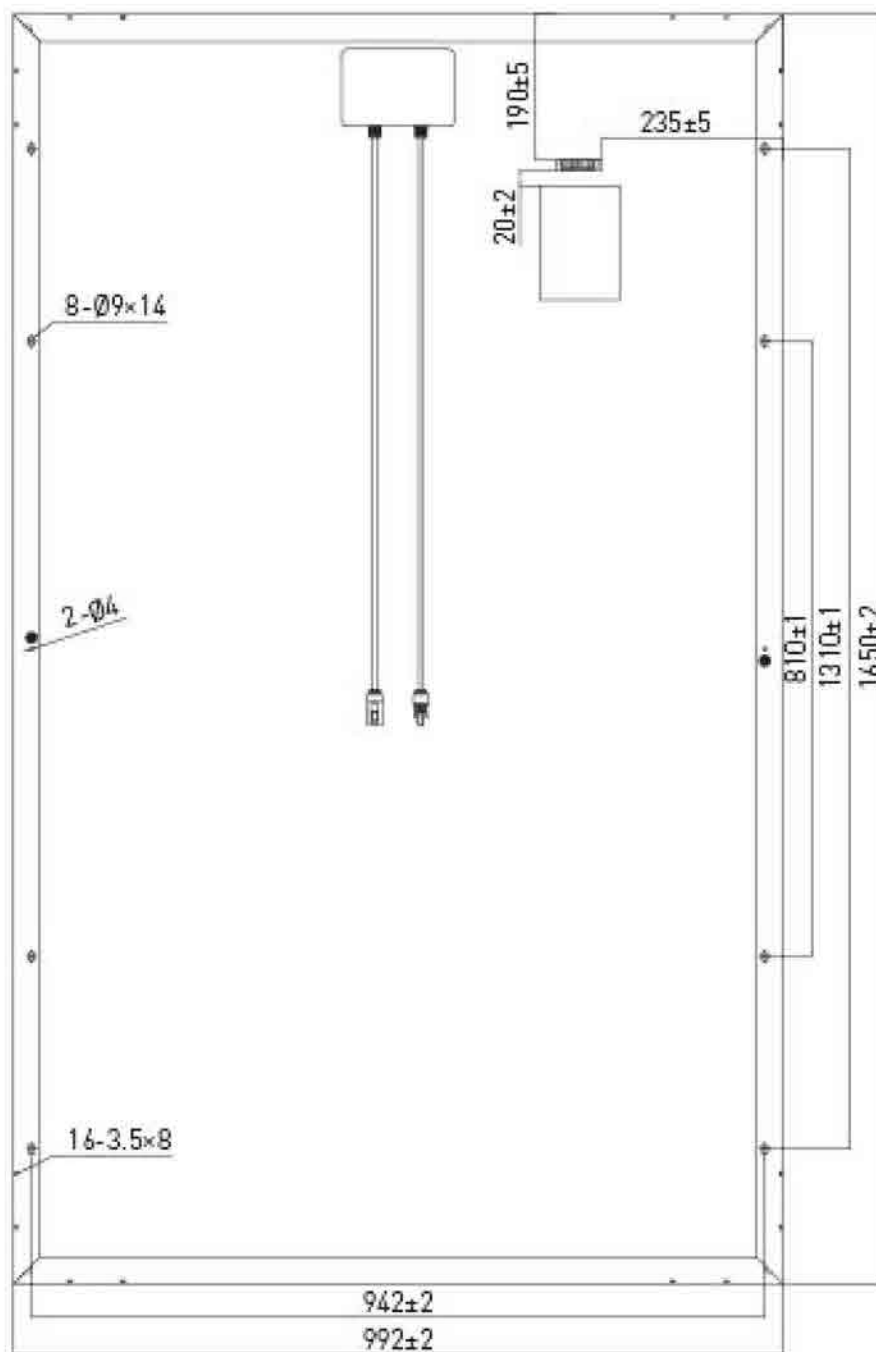
Heavy snow load up to 5400Pa  
Wind load up to 2400Pa



Product warranty on materials  
and workmanship



Linear power output warranty



### CERTIFICATES

IEC 61215, IEC 61730, IEC TS 62804, IEC 61701

ISO 9001: 2008 quality management systems

ISO 14001: 2004 environmental management systems

BS OHSAS occupational health and safety management systems

### TEMPERATURE CHARACTERISTICS

Nominal operating cell temperature(NOCT)	45±2 °C
Temperature coefficients of $V_{oc}$	-0.35% / °C
Temperature coefficients of $I_{sc}$	+ 0.055% / °C
Temperature coefficients of $P_{max}$	-0.45% / °C
Power tolerance	0~+5W

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## MECHANICAL CHARACTERISTICS

Solar Cell	60 mono-crystalline	Frame	Black anodized aluminium alloy
Front Glass	3.2 mm tempered glass	Weight	18 kg
Junction Box	IP67 rated	Dimensions	1650x992x35 mm
Bypass Diodes	3 pcs	Packaging Information	30 pcs/ pallet
Output Cables	900 mm length cable, compatible with MC4 connectors		

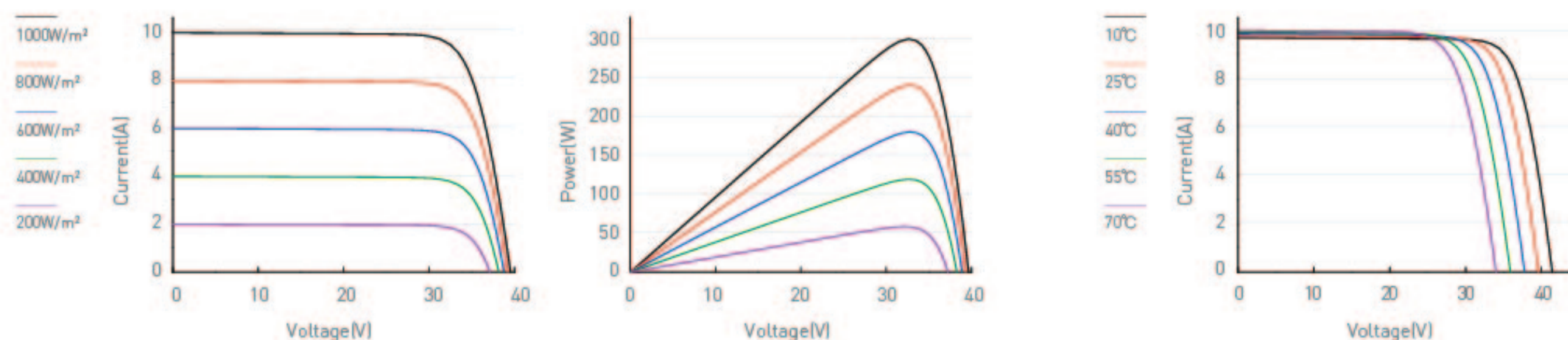
## ELECTRICAL CHARACTERISTICS

Module Type	SL220-20M320	SL220-20M315	SL220-20M310	SL220-20M305
Nominal Peak Power Pmax (W)	320	315	310	305
Nominal Voltage Vmpp (V)	33.3	33.1	32.9	32.7
Nominal Current Imp (A)	9.61	9.52	9.42	9.33
Open Circuit Voltage Voc (V)	39.9	39.7	39.5	39.3
Short Circuit Current Isc (A)	10.16	10.06	9.96	9.86
Module Efficiency (%)	19.60	19.20	18.90	18.60
Maximum System Voltage	DC1000V/DC1500V	DC1000V/DC1500V	DC1000V/DC1500V	DC1000V/DC1500V
<b>STC: Irradiation: 1000 W/m<sup>2</sup>, cell temperature: 25 °C, air mass: 1.5 [EN 60904-3]</b>				
Maximum Power Pmax (W)	233	230	226	222
Nominal Voltage Vmpp (V)	30.9	30.8	30.7	30.6
Nominal Current Imp (A)	7.55	7.45	7.36	7.27
Open Circuit Voltage Voc (V)	35.8	35.7	35.6	35.5
Short Circuit Current Isc (A)	8.30	8.19	8.09	7.98

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

Performance under weak light conditions (200 W/m<sup>2</sup>) EN60904-1, 96.0 % or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved

## CURRENT-VOLTAGE CURVE & POWER-VOLTAGE CURVE



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