



### Mechanical Characteristics

Number of cells (pcs)	120
Size of cell (mm)	182*91
Type of cell	Mono
Size of module (mm)	1909*1134*40
Weight (kg)	22.9
Junction box	IP68
Fire class	Class C
Warranty period	15 years
Cables/connectors	H1Z2Z2-K 4mm <sup>2</sup> 01C1/05-8 /TL-Cable01S/ Staubli MC4

### Maximum Ratings

Operating Temperature(°C)	-40~85
Operating Humidity(%)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

### Packing Configuration

Pieces per pallet	27
Size of packing (mm)	1940*1140*1275
Weight of packing (kg)	618
Pieces per container	648
Size of container	40' HC

### Electrical Characteristics

STC	EG-430 M60-HL	EG-435 M60-HL	EG-440 M60-HL	EG-445 M60-HL	EG-450 M60-HL
Pmax (W)	430	435	440	445	450
Vmp (V)	34.24	34.47	34.71	34.93	35.16
Imp (A)	12.56	12.62	12.68	12.74	12.80
Voc (V)	41.04	41.27	41.51	41.73	41.96
Isc (A)	13.31	13.37	13.43	13.49	13.55
Module efficiency (%)	19.86	20.09	20.32	20.55	20.78
Maximum system voltage (V)	1000				
Fuse Rating Current (A)	30				
Tolerance (%)	Pmax: ±3% Binning: ±5W、Voc: ±5%、Isc: ±5%				
Temperature coefficient	Pmax (%/°C)	-0.390			
	Isc (%/°C)	0.039			
	Voc (%/°C)	-0.295			

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

NOCT	EG-430 M60-HL	EG-435 M60-HL	EG-440 M60-HL	EG-445 M60-HL	EG-450 M60-HL
Pmax (W)	325	329	333	337	341
Vmp (V)	31.62	31.85	32.09	32.32	32.54
Imp (A)	10.28	10.33	10.38	10.43	10.48
Voc (V)	38.17	38.39	38.61	38.81	39.03
Isc (A)	10.89	10.94	10.99	11.04	11.09
Power tolerance	Pmax: ±3% Binning: ±5W				

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

### I-V Curves

