



HI-M<sup>o</sup> ILO

585-605W

High Efficiency Half-Cell Mono PERC Module



Half-cut cell technology  
New circuit design,  
lower internal current,  
lower Rs loss



Special circuit design  
with much lower hot spot  
temperature



Fire safety  
(Class C, certified to TÜV  
Rheinland and Rheinland  
test standards)



Resistance to power  
attenuation passed TÜV  
Rheinland system voltage  
endurance test

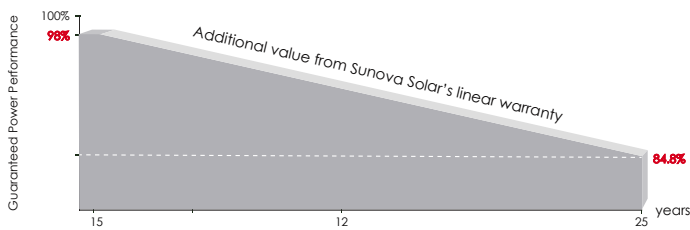


Resistance to salt-spray  
corrosion  
(IEC61701, certified to TÜV  
Rheinland test standard)



100% double EL test  
enabling remarkable  
reduction of hidden crack  
rate of modules

### LINEAR PERFORMANCE WARRANTY



**15** YEARS Product quality & process guarantee

**25** YEARS Linear power guarantee

**0.55** % Annual Degradation Over 25 years

### COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

OHSAS 18001: International Occupational Health and  
Safety Assessment System Standard

### PRODUCT INSURANCE



# SS-605-60MDH-G12 120 cells

## ELECTRIC CHARACTERISTICS

Model of modules	SS-585-60MDH-G12		SS-590-60MDH-G12		SS-595-60MDH-G12		SS-600-60MDH-G12		SS-605-60MDH-G12	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	585	443	590	447	595	451	600	454	605	458
Open-circuit voltage — $V_{oc}$ (V)	40.91	38.51	41.12	38.72	41.31	38.91	41.52	39.12	41.72	39.31
Short-circuit current — $I_{sc}$ (A)	18.37	14.81	18.42	14.85	18.47	14.88	18.52	14.92	18.57	14.96
Maximum power voltage — $V_{mp}$ (V)	33.82	31.52	34.01	31.73	34.22	31.93	34.42	32.02	34.61	32.21
Maximum power current — $I_{mp}$ (A)	17.31	14.06	17.35	14.09	17.39	14.13	17.44	14.18	17.49	14.22
Module efficiency — $\eta_m$ (%)	20.67%		20.85%		21.02%		21.20%		21.38%	
Power tolerance (W)	(0,+5)									
Maximum system voltage (V)	1500									
Maximum rated fuse current (A)	30									
Current operating temperature (°C)	-40~+85 °C									

**STC** (Standard Testing Conditions): Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1 m/s

## STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2172 x 1303 x 35 mm
Weight	30.9 kg
Number of cells	120 cells
Cell	PERC Monocrystalline 210x105 mm
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm <sup>2</sup> , wire length: 300 mm or Customized Length
Connector	MC4 Compatible
Mechanical load	5400 Pa

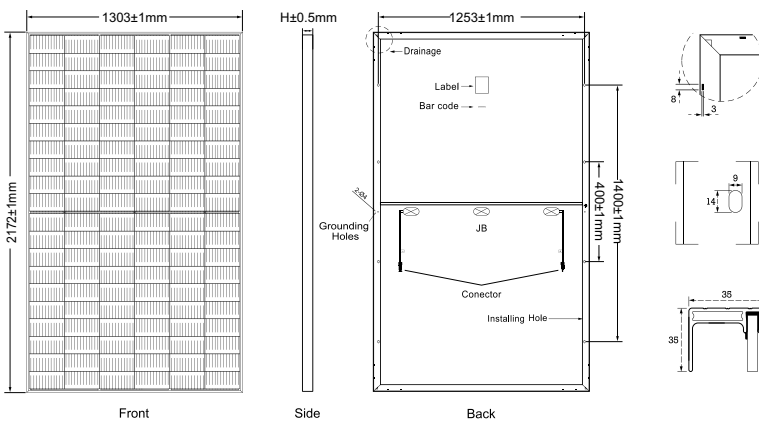
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.34 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.25 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.04 %/°C
Nomial operating cell temperature	43±2 °C

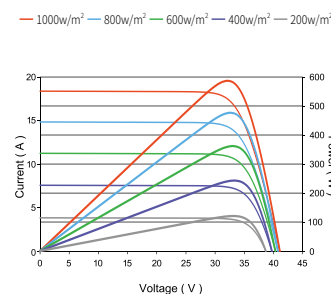
## PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	31
Pallets/container	18
Quantity/container	558

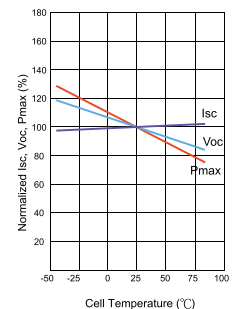
## MODULE DIMENSIONS (mm)



Current-Voltage & Power-Voltage Curves (595W)



Temperature Dependence of  $I_{sc}$ ,  $V_{oc}$ ,  $P_{max}$



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