

# Q-SUN 520-540W Series

## Bifacial Mono PERC Half-cell Double Glass

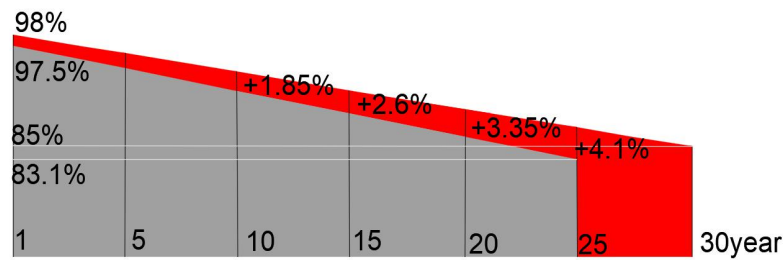
**QN-DG520M10**

**QN-DG525M10**

**QN-DG530M10**

**QN-DG535M10**

**QN-DG540M10**



■ Bifacial double glass module linear power warranty

■ Standard module linear power warranty

12-year product warranty

30-year linear power output warranty



0-3% positive tolerance



Withstand wind loads up to 2400pa and snow loads up to 5400pa



Maximum 5400 pa snow load



30 year leading linear performance warranty



Better performance under low light environment



PID-free



### Complete System and Product Certifications

IEC61215, IEC61730

ISO9001: 2015:ISO Quality Management System

ISO14001: 2015:ISO Environment Management System

OHSAS18001:2007 Occupational Health and Safety

IEC TS62941: 2016 Guideline for module design qualification and type approval



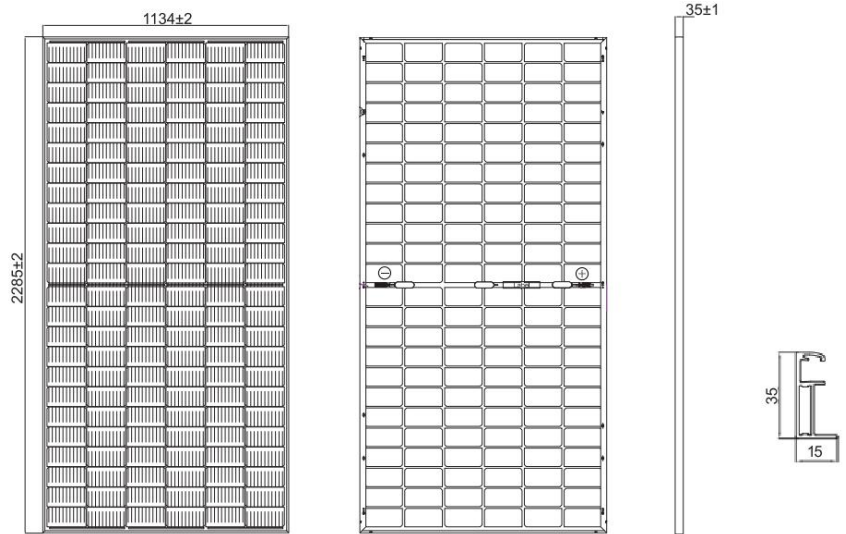
## Electrical Parameters At STC

Model Type	QN-DG520M10	QN-DG525M10	QN-DG530M10	QN-DG535M10	QN-DG540M10
Peak Power-Pmax (W)	520	525	530	535	540
Open Circuit Voltage-Voc (V)	48.95	49.10	49.25	49.40	49.55
Short Circuit Current-Isc (A)	13.60	13.66	13.73	13.79	13.85
Maximum Power Voltage-Vmp (V)	41.1	41.25	41.40	41.55	41.70
Maximum Power Current-Imp (A)	12.65	12.73	12.81	12.88	12.95
Module Efficiency - $\eta_m$ (%)	20.1	20.3	20.5	20.6	20.8
Power Tolerance	0+3%				
Temperature Coefficient of Isc	+0.055%/°C				
Temperature Coefficient of Voc	-0.289%/°C				
Temperature Coefficient of Pmax	-0.380%/°C				
Standard Testing Condition (STC)	Irradiance: 1000W/m <sup>2</sup>		Temperature: 25°C		AM=1.5

## Specifications

Cell	Mono
Cell Size	182×91 mm
No. of Cells	144pcs (6×24)
Dimension	2285×1134×35±15mm
Weight	32.5Kg±3%
Front Glass/Back Glass	2.0mm/2.0mm
Frame	Anodized Aluminum Alloy
Junction Box	IP68Rated
Internal Diodes	3 Bypass Diodes
Max Load	5400Pa
Packaging Configuration	31pcs/pallet
	620pcs/40ft Container

## Mechanical Diagrams



## ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES (REFERENCE TO 10% SOLAR ILLUMINANCE RATIO)

Model Type	QN-DG520	QN-DG525	QN-DG530	QN-DG535	QN-DG540
	M10	M10	M10	M10	M10
Rated Max Power-Pmax(W)	556	562	567	572	578
Open Circuit Voltage-Voc (V)	49.38	49.54	49.67	49.80	49.93
Short Circuit Current-Isc (A)	14.25	14.34	14.39	14.45	14.50
Maximum Power Voltage-Vmp (V)	41.35	41.53	41.77	41.99	42.24
Maximum Power Current-Imp (A)	13.45	13.52	13.58	13.63	13.69

## Operating Parameters

Maximum System Voltage	1000V/1500V DC
Bifaciality**	70% ± 10%
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C - +85°C
Safety Class	Class II

