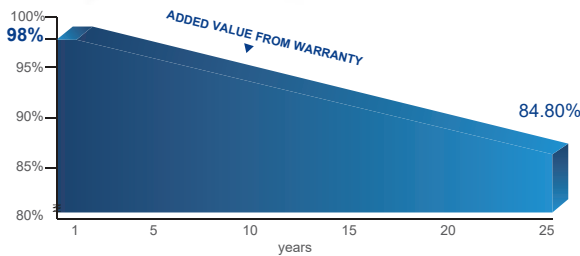


# QSOLAR

## 395~550W

### MONO Half Cell Module 182 Series

- Classic** QS(395-410)-108HM8  
 QS(430-450)-120HM8  
 QS(515-550)-144HM8



- 25** 25-year Warranty for Extra Linear Power Output
- 12** 12-year Warranty for Materials and Processing (1<sup>st</sup> year ≤ 2.0%, 2<sup>nd</sup>~25<sup>th</sup> years ≤ 0.55% / year)

### COMPREHENSIVE CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716  
 ISO9001:Quality Management System



### FEATURES

- +5W**  
**OUTPUT POSITIVE TOLERANCE**  
 Guaranteed 0~+5W positive tolerance ensures power output reliability.
- LOWER OPERATING TEMPERATURE**  
 Lower operating temperature and temperature coefficient increases the power output
- DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS**  
 High salt mist and ammonia resistance.
- ENHANCED MECHANICAL LOAD**  
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- REDUCE INTERNAL MISMATCH LOSS**  
 Reduces mismatch loss and improves output.
- REDUCE SHADOW LOSS**  
 Effectively reduces the effect of shadow on the module surface.
- PID RESISTANCE**  
 Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



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 Add: 312 Kemao Road, Wangchun Industrial Park, 315000, Ningbo China

ITEM	QS400-108HM8		QS430-120HM8		QS440-120HM8		QS545-144HM8		QS550-144HM8	
STC/NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max.Power(Pmax)	400	302	430	322	440	329	545	405.1	550	410
Opt.Operating Current(Imp)	12.83	10.50	12.85	10.28	13.01	10.40	13.00	10.41	13.32	10.64
Opt.Operating Voltage(Vmp)	31.18	28.80	33.73	31.36	33.95	31.60	41.93	38.93	41.28	38.46
Short Circuit Current(Isc)	13.73	11.04	13.53	10.93	13.69	11.06	13.81	11.13	14.01	11.32
Open Circuit Voltage(Voc)	37.04	34.80	40.83	38.53	41.05	38.75	49.90	46.73	49.80	47.00
Module Efficiency	20.48%		19.79%		20.25%		21.32%		21.40%	
Module Power Tolerance	0/±5W									
Operating Temperature	-40°C~+85°C									
Max.System Voltage	1500V DC-(H)									
Max.Series Fuse Rating	20A									
Application Level	A									
STC	Irradiance 1000W/m²,Cell temperature25°C,Spectrum AM1.5									
NOCT	Irradiance 800W/m²,Cell temperature20°C,Spectrum AM1.5,Wind speed 1m/s									

MECHANICAL DATA	QS400-108HM8	QS430-120HM8	QS440-120HM8	QS545-144HM8	QS550-144HM8
Cell Type	182*182mm Monocrystalline,P/N Type	182*182mm Monocrystalline,9BB/10BB			
Cell Arrangement	108 (6*9+6*9)	120 (6*10+6*10)	120 (6*10+6*10)	144 (6*12+6*12)	144 (6*12+6*12)
Dimensions	1722*1134*30mm	1916*1134*35mm	1916*1134*35mm	2256*1133*35mm	2279*1134*35mm
Weight	20.0kg±3%	24.5kg±3%	24.5kg±3%	28.4kg	29.4kg
Front Glass	3.2mm,High Transmission,Low Iron,Tempered Glass				
Frame	Anodized aluminum alloy				
J-Box	IP68				
Cable	TUV(2pfg 1169:2007)4.0mm²(0.006inches²),(-)300/1100mm(43.3inches)and(+ )300/1100mm(43.3inches)				
Connector	MC4				

## PACKING SPECIFICATION

Item	20GP	40HQ	17.5M	Single package (40HQ,2PCS/CTN)
1722*1134*30mm	360PCS	936PCS	1800PCS	942PCS
1916*1134*35mm	/	744PCS	1332PCS	760PCS
2256*1133*35mm	/	620PCS	1110PCS	644PCS
2279*1134*35mm	260PCS	620PCS	1170PCS	640PCS

## MODULE DIMENSION DETAILS

