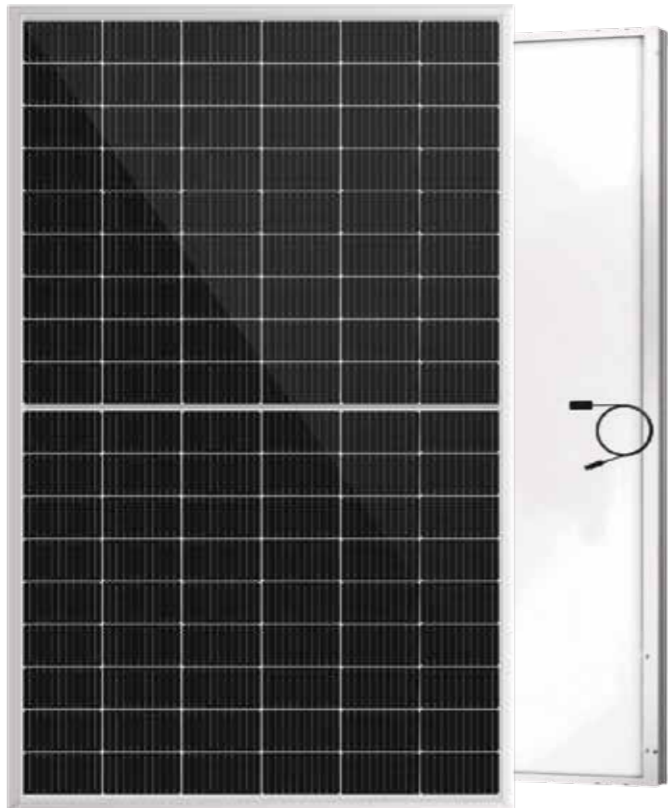


# 182 Solar Module 400-420W

STM400-420/108-S3

Higher power output **21.5%** up to



PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



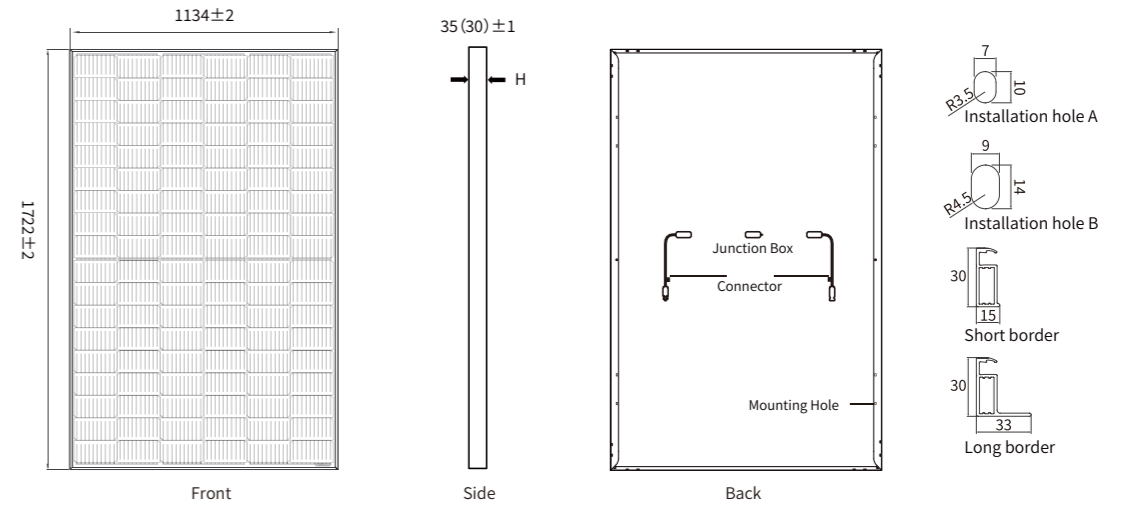
**12**  
YEARS

12-year Warranty for Materials and Processing

**25**  
YEARS

25-year Warranty for Extra Linear Power Output

ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
GB/T 29490-2013



Remark: customized frame color and cable length available upon request

Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/806pcs 37/962pcs	31/1426pcs 37/1480pcs	1722x1134x35(30)mm	20kg±3%

### MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	108(6x18)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

### OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 C ~+85 C
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Safety Class	Class II

STC:AM1.5 1000W/m<sup>2</sup> 25°C NOCT:AM1.5 800W/m<sup>2</sup> 20°C 1m/s

Test Uncertainty for Pmax ±3%

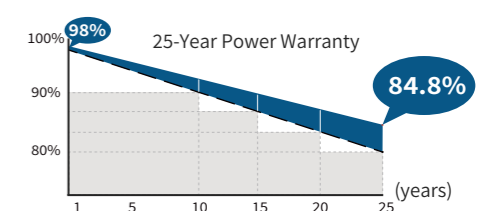
### ELECTRICAL CHARACTERISTICS

Module Type	STM-400/108-S3		STM-405/108-S3		STM-410/108-S3		STM-415/108-S3		STM-420/108-S3	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	400	301.3	405	305.1	410	308.9	415	312.6	420	316.4
Open Circuit Voltage(Voc/V)	36.91	34.53	37.06	34.67	37.21	34.81	37.36	34.95	37.51	35.09
Short Circuit Current(Isc/A)	13.68	11.04	13.75	11.10	13.82	11.16	13.89	11.21	13.96	11.27
Voltage at Maximum Power(Vmp/V)	31.20	28.79	31.36	29.00	31.52	29.21	31.68	29.42	31.84	29.62
Current at Maximum Power(Imp/A)	12.82	10.47	12.91	10.52	13.01	10.57	13.11	10.63	13.21	10.68
Module Efficiency(%)	20.50		20.70		21.00		21.30		21.50	

### TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.350%/°C

### ADDITIONAL VALUE



### I-V CURVE(STM400-420/108-S3)

