

# TOPCon 199R2

## 585-605W

STM-585-605/132-R2

Higher power output **23.4%** up to



PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



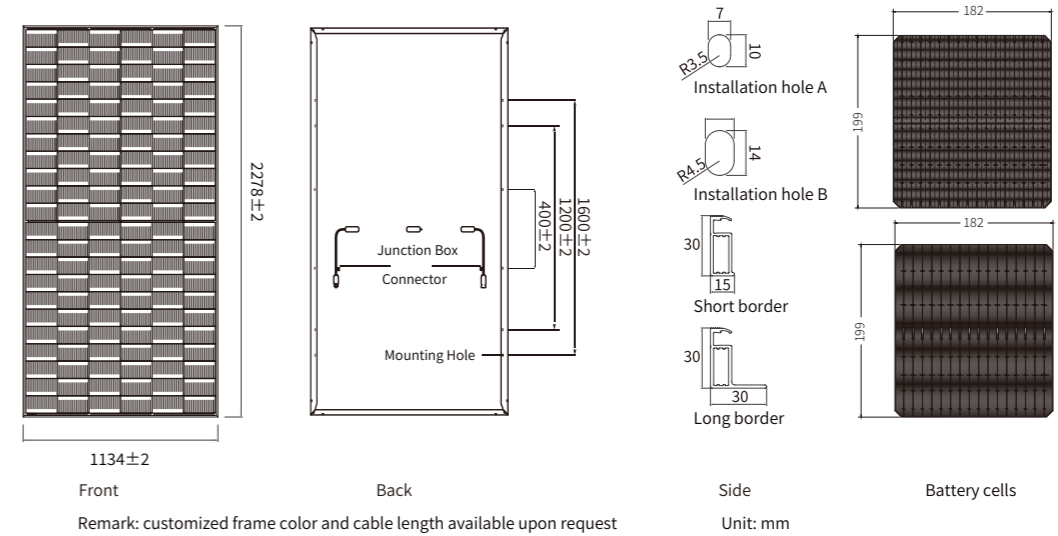
**12**  
YEARS

12-year Warranty for Materials and Processing

**30**  
YEARS

30-year Warranty for Extra Linear Power Output

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



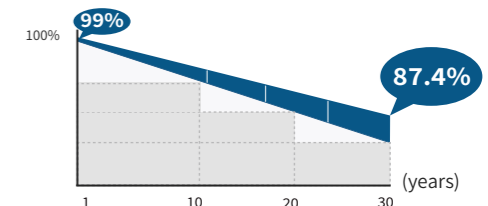
Packaging(pcs/40HQ container)	17.5 meter semi hanging	Dimensions	Weight
31/620pcs 37/740pcs	31/930pcs 37/1036pcs	2278x1134x35(30)mm	28±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	132(6x22)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	30A
Cable Cross Section Size	4mm <sup>2</sup> (IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft <sup>2</sup> )
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft <sup>2</sup> )
Connector	MC4 Compatible	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%	

Module Type	STM-585/132-R2		STM-590/132-R2		STM-595/132-R2		STM-600/132-R2		STM-605/132-R2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	585	443	590	447	595	451	600	455	605	459
Open Circuit Voltage(Voc/V)	48.38	45.96	48.58	46.15	48.78	46.34	48.98	46.53	49.18	46.72
Short Circuit Current(Isc/A)	15.26	12.32	15.31	12.36	15.36	12.40	15.41	12.44	15.46	12.48
Voltage at Maximum Power(Vmp/V)	40.63	38.59	40.84	38.79	41.05	38.99	41.26	39.19	41.47	39.39
Current at Maximum Power(Imp/A)	14.4	11.49	14.45	11.53	14.5	11.57	14.55	11.60	14.6	11.64
Module Efficiency(%)	22.60		22.80		23.00		23.20		23.40	

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(STM-585-605/132-R2)

