

# TOPCon 210R3S

## 630-650W

STM-630-650/132-R3S

Higher power output **24.0%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



Double-sided power generation

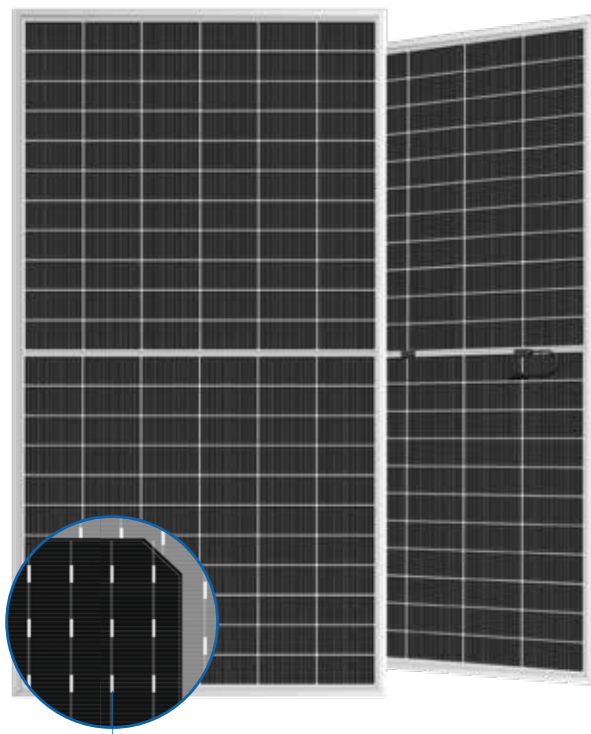


**12**  
YEARS

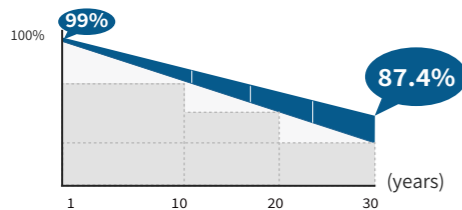
12-year Warranty for Materials and Processing

**30**  
YEARS

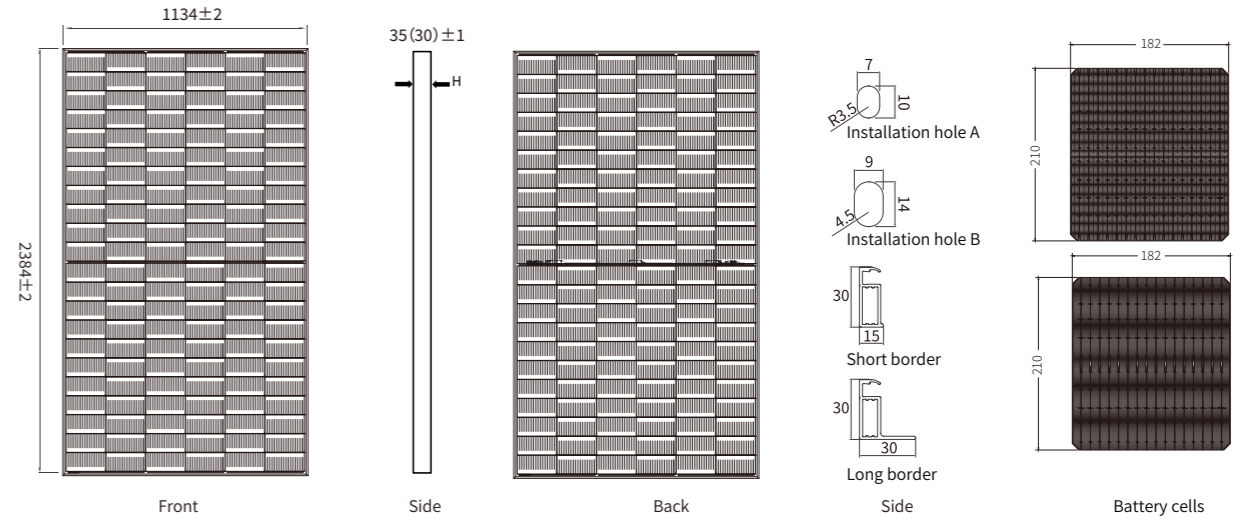
30-year Warranty for Extra Linear Power Output



Double-sided cell technology



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)	13.5 meter semi hanging	Dimensions	Weight
31/620pcs 37/740pcs	31/682pcs 37/814pcs	2384x1134x35(30)mm	33.6kg±3%

### MECHANICAL SPECIFICATION

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	25A
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%	

### OPERATING PARAMETERS

### ELECTRICAL CHARACTERISTICS

Module Type	STM-630/132-R3S		STM-635/132-R3S		STM-640/132-R3S		STM-645/132-R3S		STM-650/132-R3S	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	630	478	635	481	640	485	645	489	650	493
Open Circuit Voltage(Voc/V)	48.74	46.30	48.92	46.47	49.10	46.65	49.28	46.82	49.46	46.99
Short Circuit Current(Isc/A)	16.24	13.11	16.30	13.16	16.36	13.21	16.42	13.25	16.48	13.30
Voltage at Maximum Power(Vmp/V)	40.88	39.05	41.06	39.21	41.24	39.38	41.42	39.54	41.60	39.70
Current at Maximum Power(Imp/A)	15.44	12.23	15.50	12.27	15.56	12.32	15.62	12.36	15.68	12.41
Module Efficiency(%)	23.30		23.50		23.70		23.90		24.00	

### TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCEDSPECIFICALLY TO 630WP FRONT)					
Temperature Coefficient of Isc	+0.045%/°C	Power Gain (%)	5%	10%	15%	20%	25%
Temperature Coefficient of Voc	-0.275%/°C	Maximum Power(Pmax/W)	661	693	724	756	787
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)	24.50%	25.60%	26.80%	28.00%	29.10%

### POWER OUTPUT OF THE FRONT AND REAR SIDE

### I-V CURVE(STM-630-650/132-R3S)

