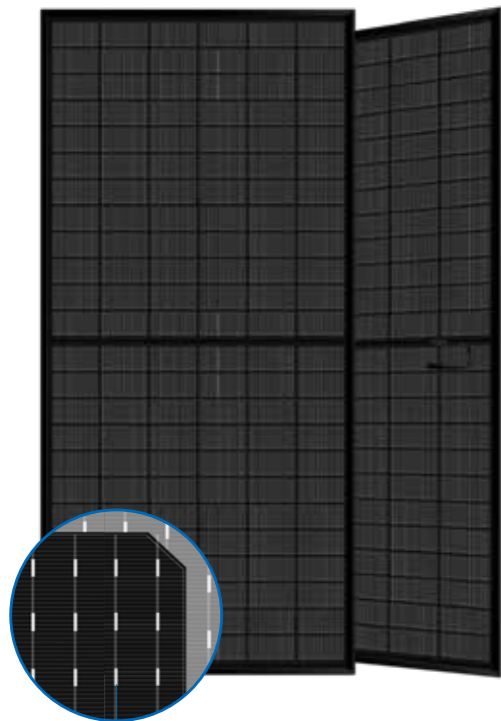


TOPCon 199R2SB

635-655W

STM-635-655/144-R2SB



Double-sided cell technology

Higher power output **23.4%** up to

PID Resistance



Low-light Performance



Severe Weather Resilience



Durability Against Extreme Environmental Conditions



Double-sided power generation

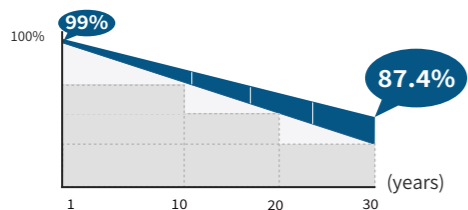


12
YEARS

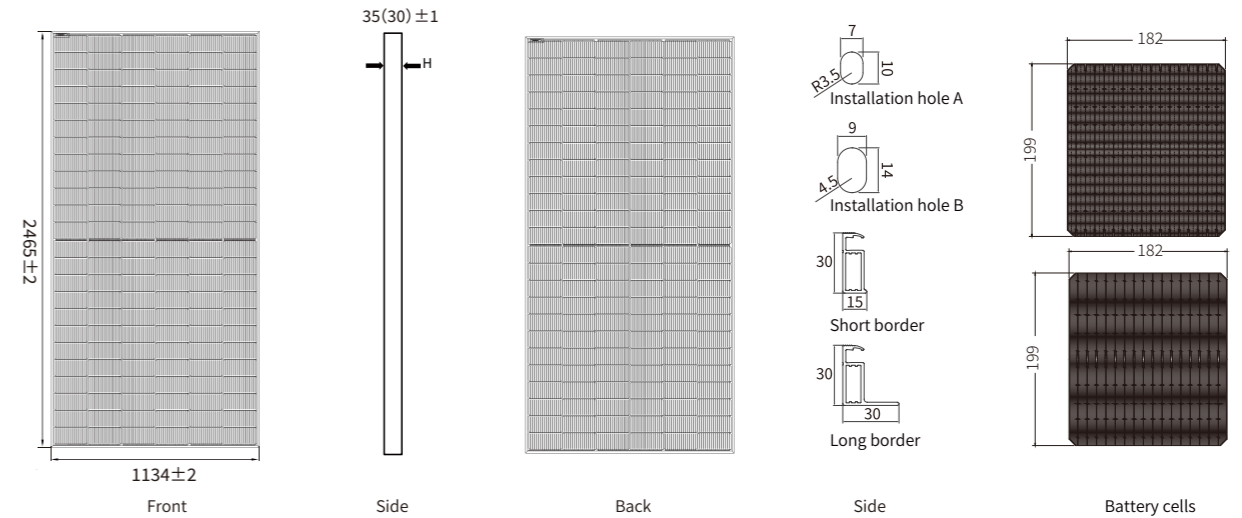
12-year Warranty for Materials and Processing

30
YEARS

30-year Warranty for Extra Linear Power Output



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 meter semi hanging	Dimensions	Weight
31/496pcs 37/592pcs	31/620pcs 37/740pcs	2465x1134x35(30)mm	34kg±3%

MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	N-type mono-crystalline	Maximum System Voltage	1500VDC
No.of cells	144(6x24)	Operating Temperature	-40°C~+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	30A
Cable Cross Section Size	4mm ² (IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Connector	MC4 Compatible	Safety Class	Class II
STC:AM1.5 1000W/m ² 25°C NOCT:AM1.5 800W/m ² 20°C 1m/s		Test Uncertainty for Pmax ±3%	

Module Type	STM-635/144-R2SB		STM-640/144-R2SB		STM-645/144-R2SB		STM-650/144-R2SB		STM-655/144-R2SB	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	635	481	640	485	645	489	650	493	655	496
Open Circuit Voltage(Voc/V)	56.01	53.21	56.18	53.37	56.35	53.53	56.52	53.69	56.69	53.86
Short Circuit Current(Isc/A)	14.42	11.64	14.48	11.69	14.54	11.74	14.6	11.79	14.66	11.83
Voltage at Maximum Power(Vmp/V)	46.42	44.33	46.59	44.49	46.76	44.65	46.93	44.81	47.1	44.97
Current at Maximum Power(Imp/A)	13.68	10.86	13.74	10.90	13.80	10.95	13.86	10.99	13.92	11.04
Module Efficiency(%)	22.70		22.90		23.10		23.30		23.40	

TEMPERATURE RATINGS		POWER OUTPUT OF THE FRONT AND REAR SIDE					
Normal Operating Cell Temperature(NOCT)	45±2°C	(REFERENCEDSPECIFICALLY TO 635WP 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)	666	698	730	762	793
Temperature Coefficient of Pmax	-0.350%/°C	Pmax Gain(%)	23.80%	25.00%	26.10%	27.30%	28.40%

