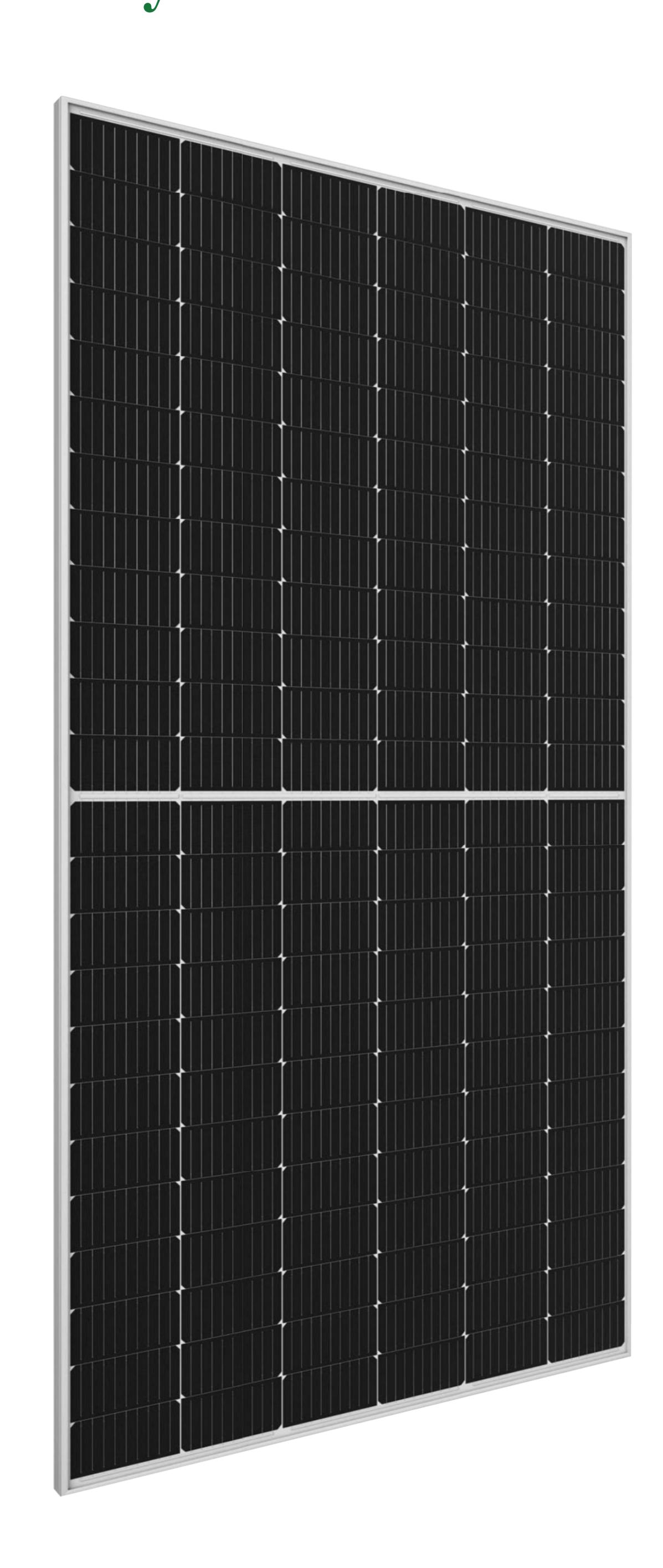


SW550IVI-144

Monocrystalline 144 Cells 525W-550W



Mono Solar Panel Features



Widely using of the most popular and mature type of modules for solar system



High power output and highest conversion efficiency of 21.50%

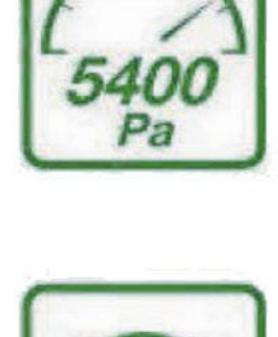


Anti-reflective and anti-soiling surface reduces power loss from dirt and dust

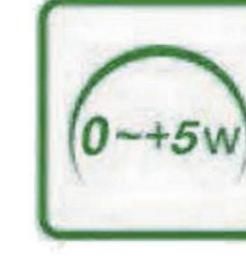


environments

Outstanding Performance in low-light irradiance



Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and Snow loads (5400Pa)



Positive power tolerance: 0~+5W











Reliable Quality

Positive power tolerance: 0~+5W



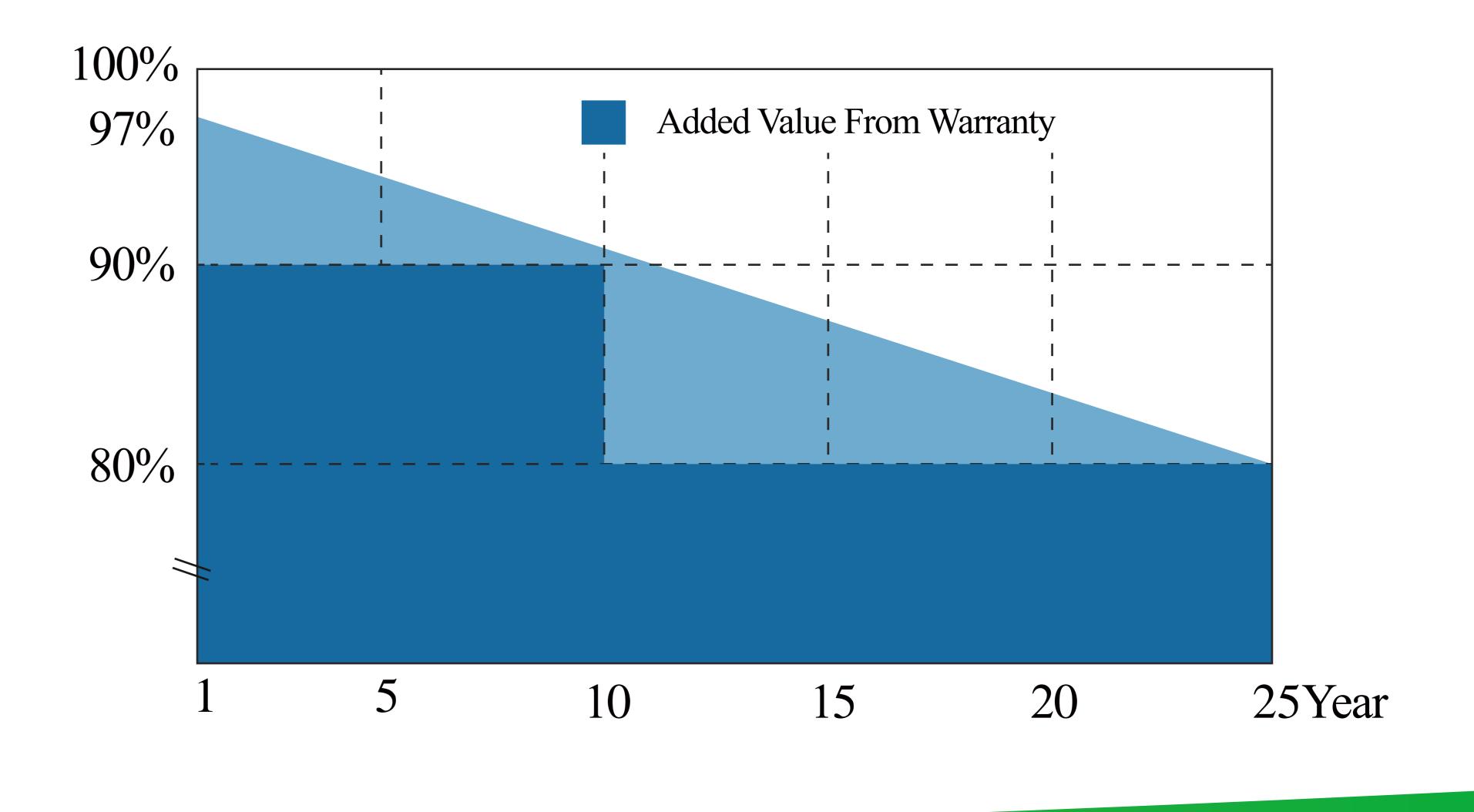
100% EL Double-inspection ensures modules are defects free

Modules Binned by Current to improve system performance





Warranty
12 years for product defects in materials & workmanship
12 years for 90% of warranted minimum power output
25 years for 80% of warranted minimum power output
25 years liner warranty



Potential induced Degradation (PID) Resistant

Hefei Sunway Solar Energy Tech. Co., Ltd.



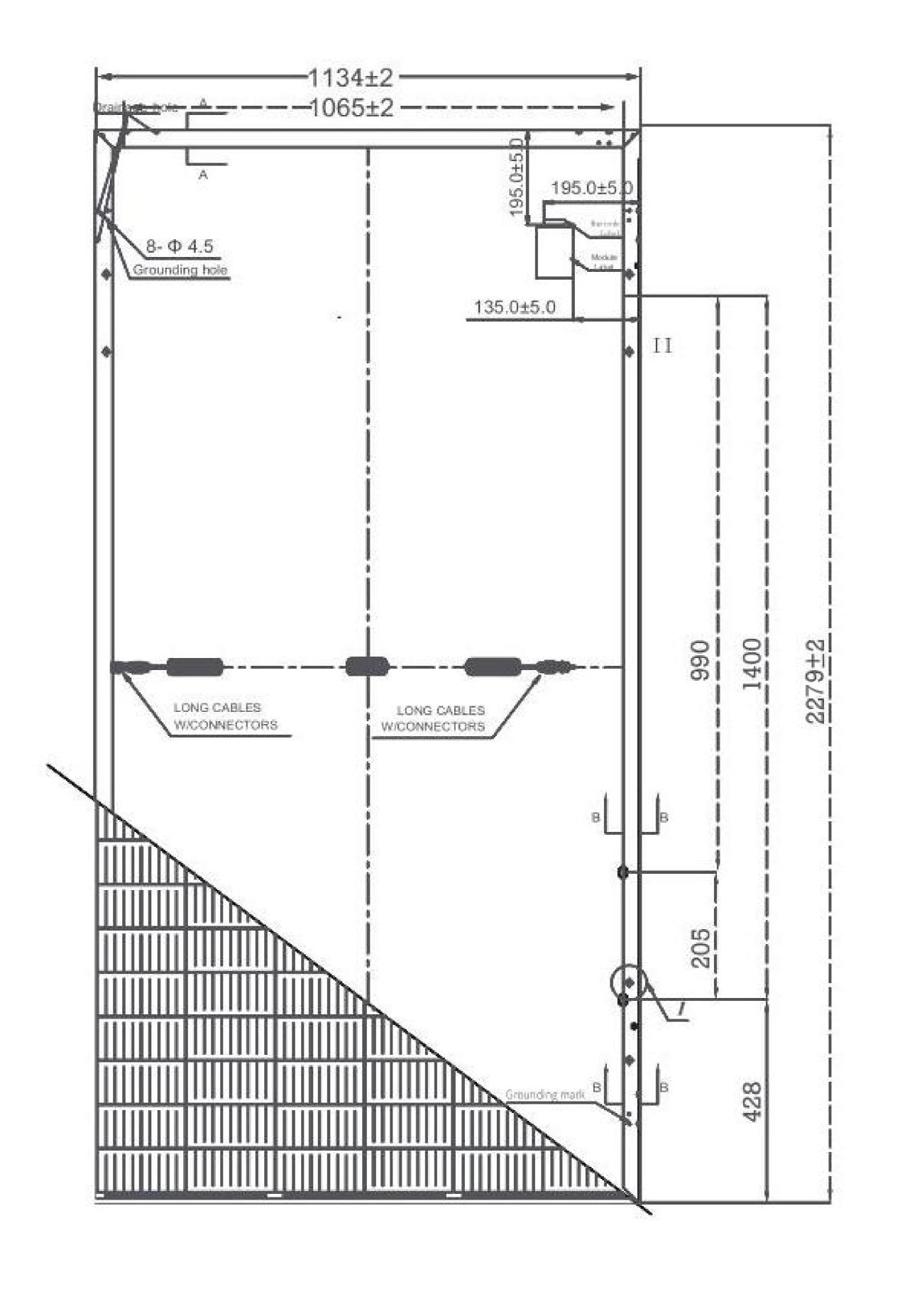


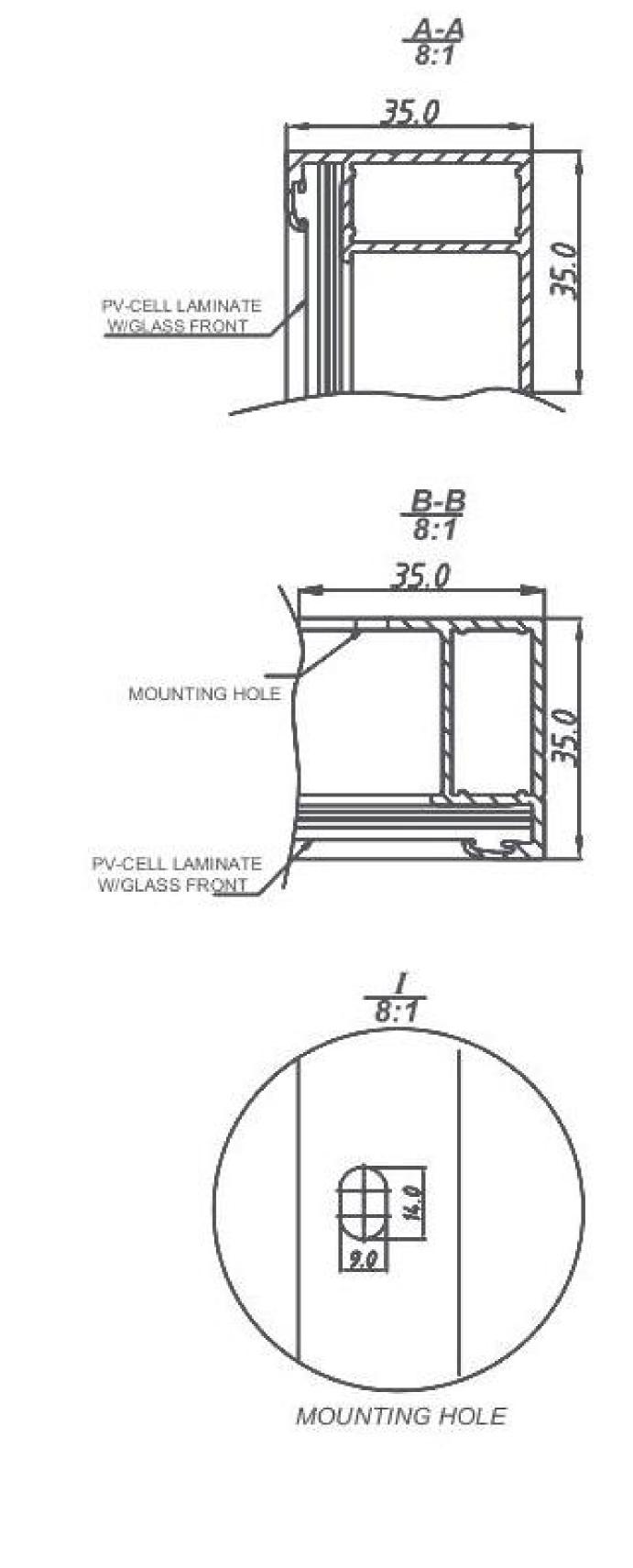
YOUR PROFESSIONAL PV SUPPLIER

Mechanical parameters Cell(mm) 9BB 182*182 Weight(kg) 29kg Glass Thickness 3.2mm Low Iron Tempered Glass Dimensions (L*W*H)(mm) 2279*1134*35mm Cable Cross Section Size (mm²) Cable Cross Section Length (mm) 300 No. of Cells and Connections 144(6*24) IP68, with Bypass Diodes Junction Box MC4 Compatiple Connector

Working Conditions Maximum System Voltage DC 1000V/1500V -40 °C ~ +85 °C Operating Temperature Maximum Series Fuse 20A Maximum Static Load, Front (e.g., snow and wind) 5400Pa (112 lb/ft²) 2400Pa (50 lb/ft²) Maximum Static Load, Back (e.g., wind) 43±2°C NOCT $0 \sim +5 \text{W}$ Positive power tolerance Application Class Class A

Engineering Drawings

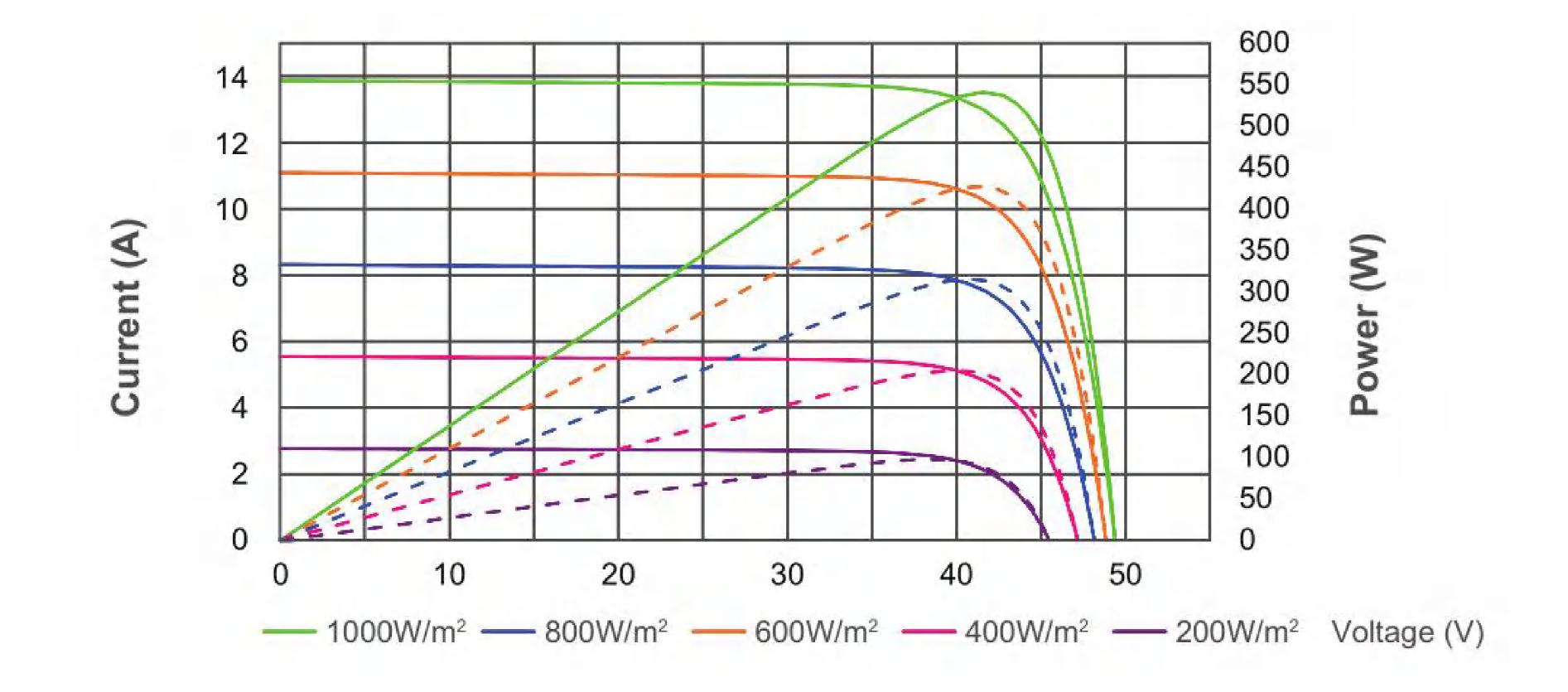


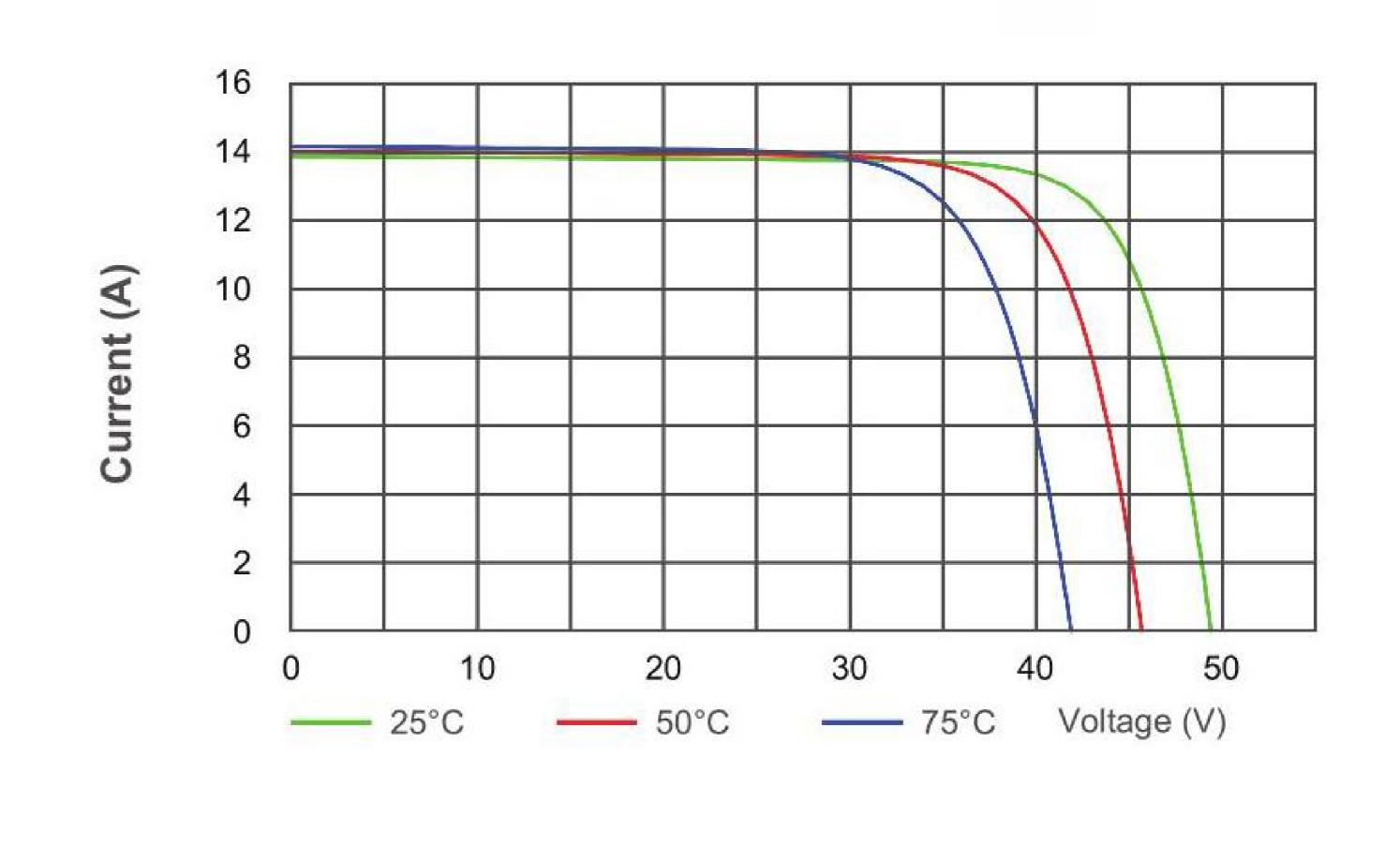


Electrical Parameters						
Module	$SW525M\text{-}144 \sim SW550M\text{-}144$					
Encapsulation	Class/Eva/Cell/Eva/Backsheet					
Maximum Power Pmax (W)	525	530	535	540	545	550
Maximum Power Voltage (Vmp/V)	40.60	40.80	41.00	41.20	41.40	41.60
Maximum Power Current (Imp/A)	12.94	13.00	13.05	13.11	13.17	13.23
Open Circuit Voltage (Voc/V)	48.80	49.00	49.20	49.40	49.60	49.80
Short Circuit Current (Isc/A)	13.71	13.76	13.81	13.87	13.93	13.99
Module Efficiency (%)	20.50	20.70	20.90	21.10	21.30	21.50
Power Tolerance (W)	$0\sim +5 \mathrm{W}$					
Temperature Coefficient of Isc (αIsc)	+0.043%/°C					
Temperature Coefficient of Voc (βVoc)	-0.26%/°C					
Temperature Coefficient of Pmax (γPmp)	- 0.36%/°C					

I-V Curve

STC





Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5