



Benchmark II SPP365-390P72

365-390W MWT Module

Poly(Cast-Mono) 72 Cells

20.1%

Module efficiency up to 20.1%

Benchmark MWT PV Module

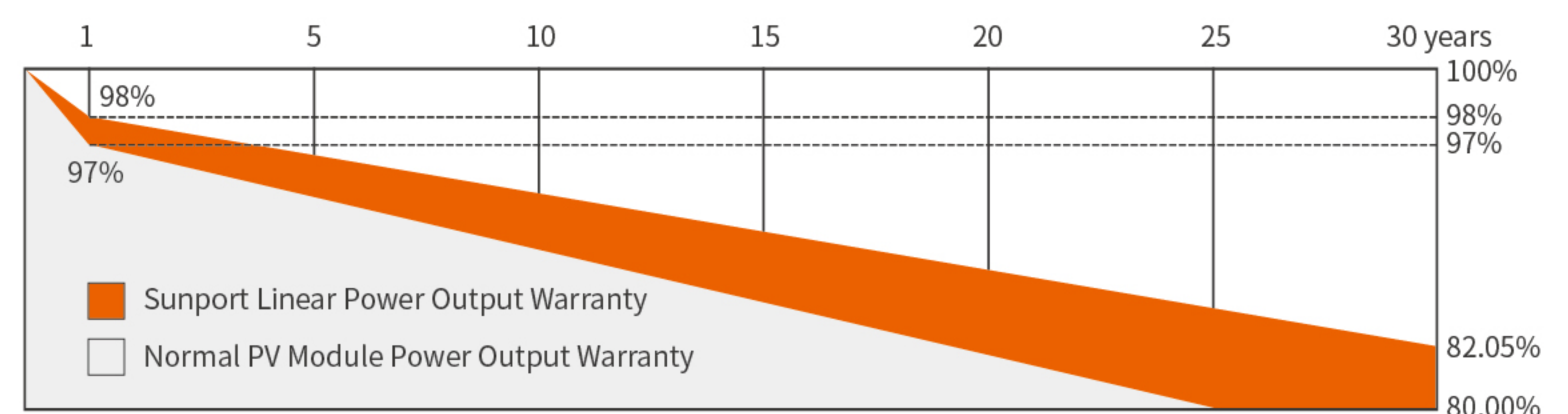
- Higher Efficiency**
 The highest efficiency of the series is up to 20.1%.
- Higher Yield**
 Higher power generation on the same installation.
- Anti-PID**
 Certified for Anti-PID under 85°C/85%RH, for 288hrs.
- Lower Degradation**
 At least 98% of the initial effective output in the 1st year and 82% in the 30th year.
- Corrosion-Resistant**
 Certified for Ammonia Resistance and Salt Mist Corrosion.
- Heat-Resistant**
 Improved temperature coefficient as low as $-0.36\%/^{\circ}\text{C}$.

Reinsurance Coverage for 30 Years



Insured by PICC and LLOYD'S

PICC LLOYD'S



※1st year degradation less than 2%, 30 years linear power output 82% guaranteed.

Comprehensive Qualifications & Certifications

- ★ IEC 61215, IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68.
- ★ ISO 9001:2015 Quality Management System
- ★ OHSAS 18001:2007 Occupation Health Safety Management System
- ★ CQC&CGC Top Runner Advanced Technology Certification (4A class)
- ★ ISO 14001:2015 Environment Management System
- ★ TUV NORD and UK NQA Quality System Certification



Electrical Characteristics at Standard Test Conditions(STC)

Spec/Model	Unit	SPP365P72	SPP370P72	SPP375P72	SPP380P72	SPP385P72	SPP390P72
Max-Power(Pm)	W	365	370	375	380	385	390
Power Tolerance	%	0~+3%					
Max-Power Voltage(Vm)	V	38.1	38.3	38.5	38.7	38.9	39.1
Max-Power Current(Im)	A	9.59	9.67	9.75	9.83	9.90	9.98
Open-Circuit Voltage(Voc)	V	47.0	47.2	47.4	47.6	47.8	48.0
Short-Circuit Current(Isc)	A	9.98	10.04	10.10	10.16	10.22	10.28
Module Efficiency(ηm)	%	18.8	19.1	19.3	19.6	19.8	20.1
STC:AM=1.5, Irradiation1000W/m ² , Module Temperature25°C							

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP365P72	SPP370P72	SPP375P72	SPP380P72	SPP385P72	SPP390P72
Max-Power(Pm)	W	272	276	279	283	287	291
Max-Power Voltage(Vm)	V	34.8	35.0	35.1	35.3	35.5	35.7
Max-Power Current(Im)	A	7.82	7.89	7.95	8.02	8.09	8.15
Open-Circuit Voltage(Voc)	V	42.9	43.0	43.1	43.3	43.5	43.6
Short-Circuit Current(Isc)	A	8.15	8.20	8.25	8.31	8.37	8.44
NMOT: Irradiation800W/m ² , ambient temperature20°C,Wind Speed1m/s							

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Package

Transportation	Container Size	Quantity(pcs)	Quantity(per pallet)
Container	20' GP	270	27
Container	40' HC	648/696	27

Mechanical Property

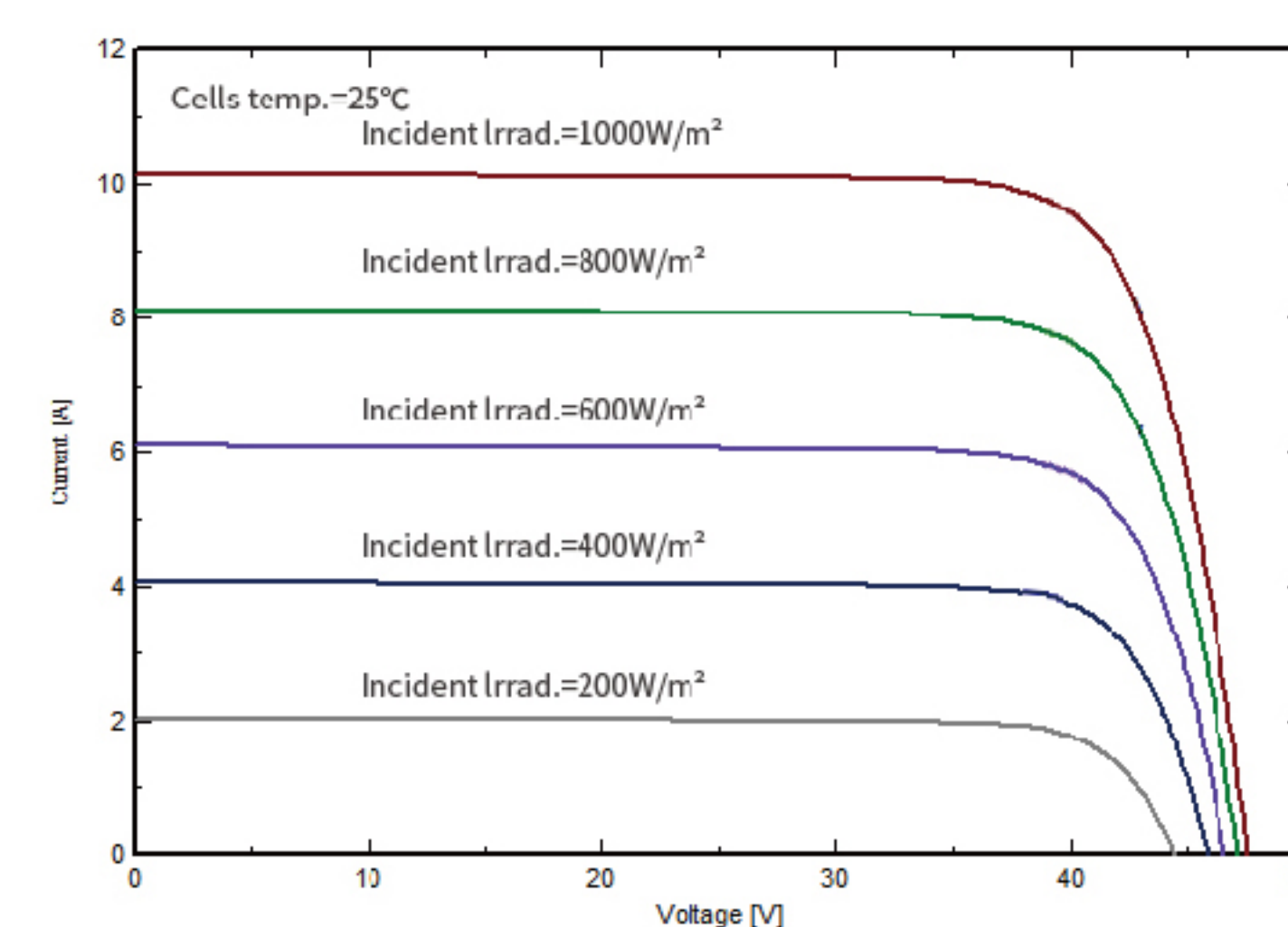
Dimension(L×W×H)	1956mmx992mmx40mm
Weight	22.5kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	72(12x6)/Poly(Cast-Mono)/158.75mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67&IP68
Cable	1200mm / 4mm ²
Connector	MC4 Compatible

Operating Conditions

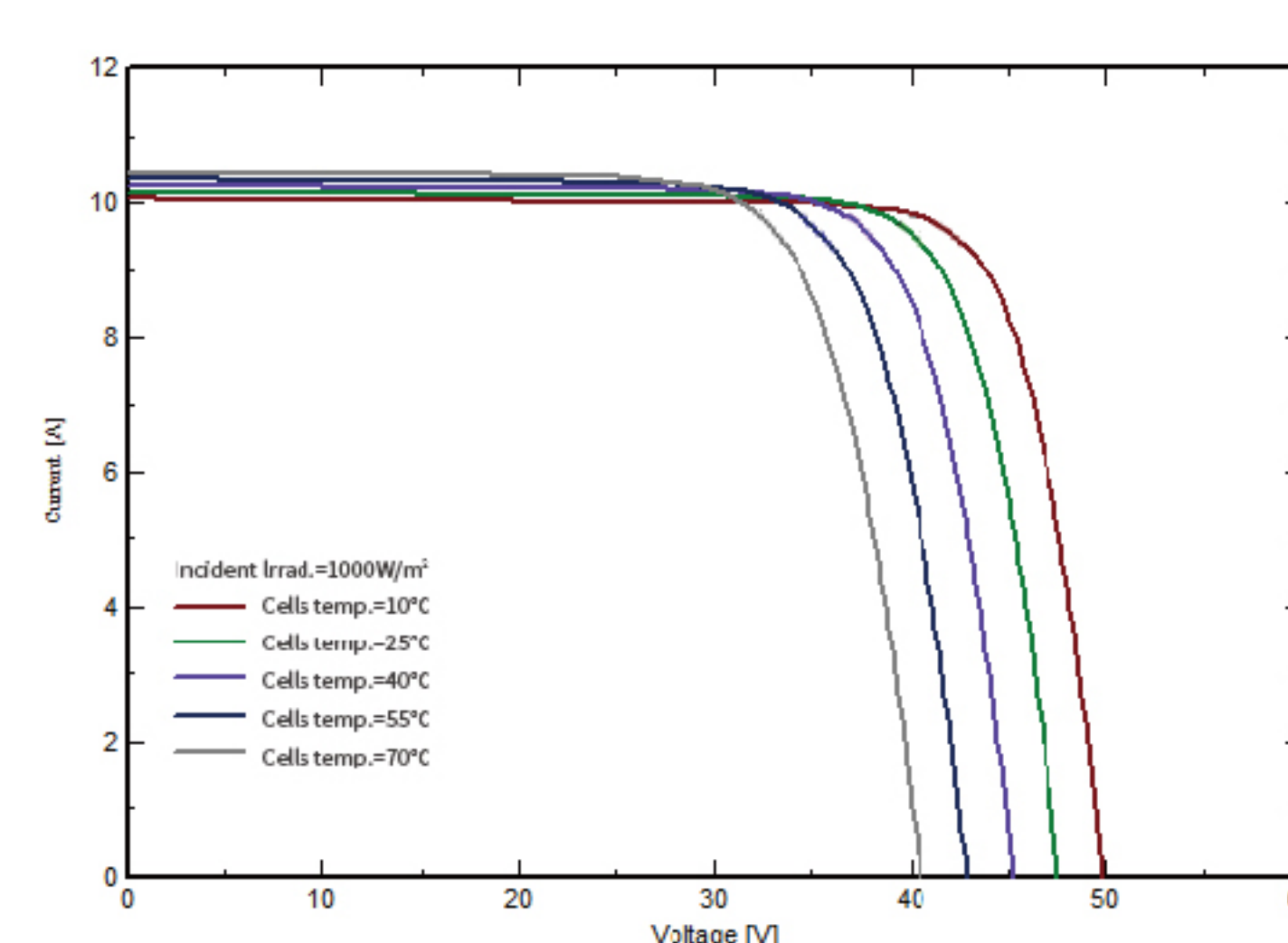
Max System Voltage	1000V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP380P72)



I-V Curve at different temperature (SPP380P72)



Module Size

