



Benchmark II SPP375-400PH7H

375-400W MWT Module

Cast-Mono Half-cut 72 Cells

20.5%

Module efficiency up to 20.5%

Benchmark MWT PV Module

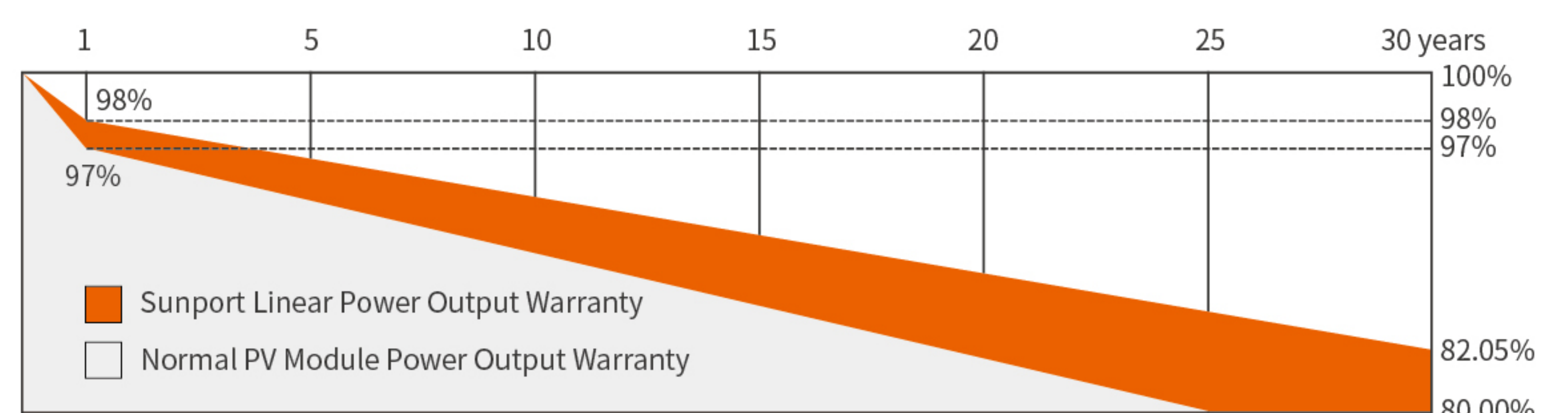
- Higher Efficiency**
The highest efficiency of the series is up to 20.5%.
- Higher Yield**
Higher power generation on the same installation.
- Anti-PID**
Certified for Anti-PID under 85°C/85%RH, for 288hrs.
- Lower Degradation**
At least 98% of the initial effective output in the 1st year and 82% in 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	SPP375PH7H	SPP380PH7H	SPP385PH7H	SPP390PH7H	SPP395PH7H	SPP400PH7H
Max-Power(Pm)	W	375	380	385	390	395	400
Power Tolerance	%	0-+3%					
Max-Power Voltage(Vm)	V	38.5	38.7	38.9	39.1	39.3	39.5
Max-Power Current(Im)	A	9.74	9.82	9.90	9.98	10.06	10.13
Open-Circuit Voltage(Voc)	V	47.4	47.6	47.8	48.0	48.2	48.4
Short-Circuit Current(Isc)	A	10.13	10.19	10.25	10.31	10.37	10.44
Module Efficiency(ηm)	%	19.2	19.4	19.7	20.0	20.2	20.5
STC:AM=1.5, Irradiation1000W/m ² , Module Temperature25°C							

Electrical Characteristics at Nominal Module Operating Temperature (NMOT)

Spec/Model	Unit	SPP375PH7H	SPP380PH7H	SPP385PH7H	SPP390PH7H	SPP395PH7H	SPP400PH7H
Max-Power(Pm)	W	279	283	287	291	295	299
Max-Power Voltage(Vm)	V	35.1	35.3	35.5	35.7	35.9	36.1
Max-Power Current(Im)	A	7.95	8.02	8.09	8.13	8.22	8.29
Open-Circuit Voltage(Voc)	V	43.1	43.3	43.5	43.6	43.8	44.0
Short-Circuit Current(Isc)	A	8.29	8.35	8.40	8.44	8.52	8.58
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

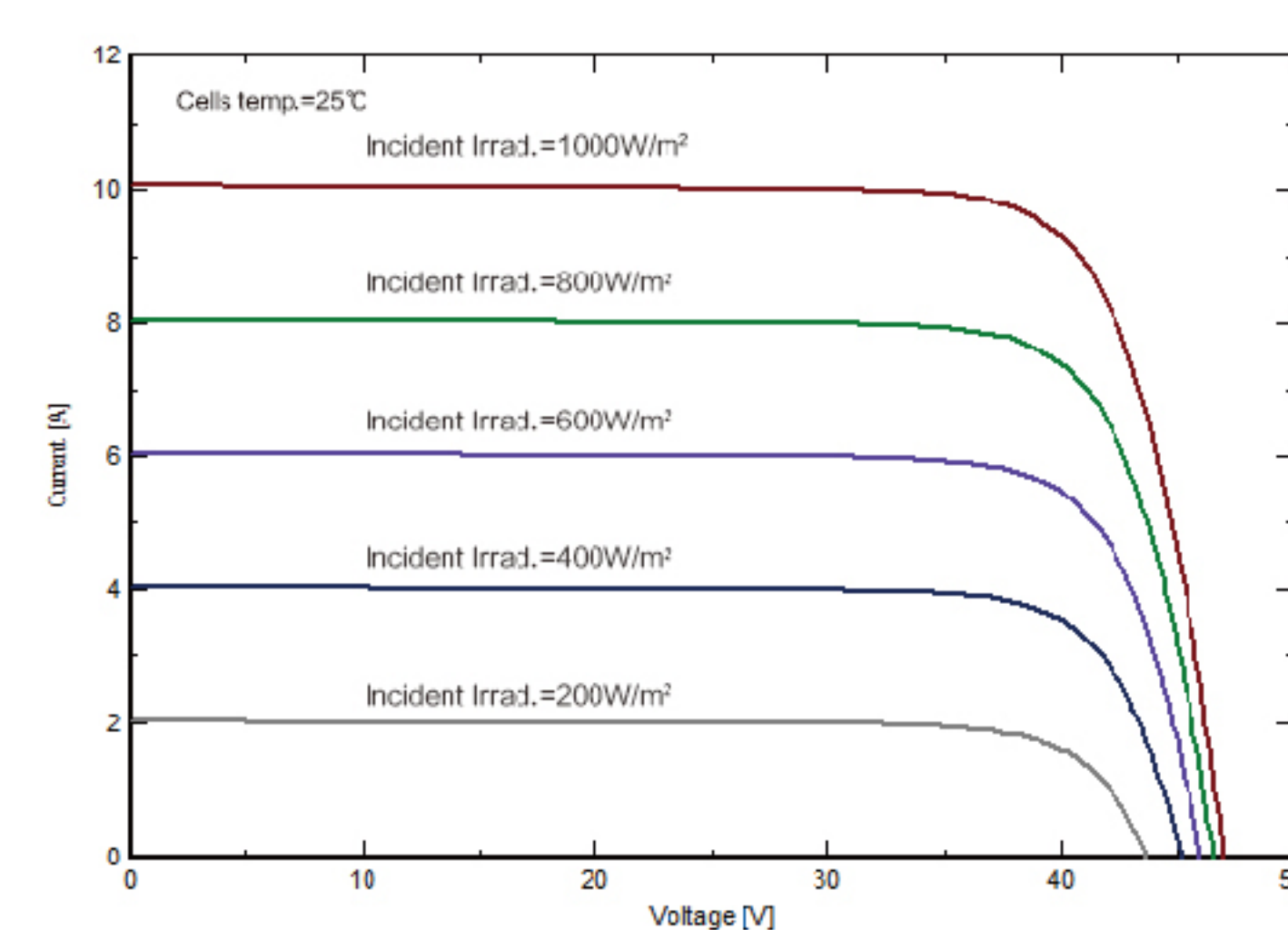
Dimension(L×W×H)	1970mmx992mmx40mm
Weight	23kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	144(24x6)/Cast-Mono/158.75mm(Half-cut)
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67&IP68
Cable	300mm / 4mm ²
Connector	MC4 Compatible

Operating Conditions

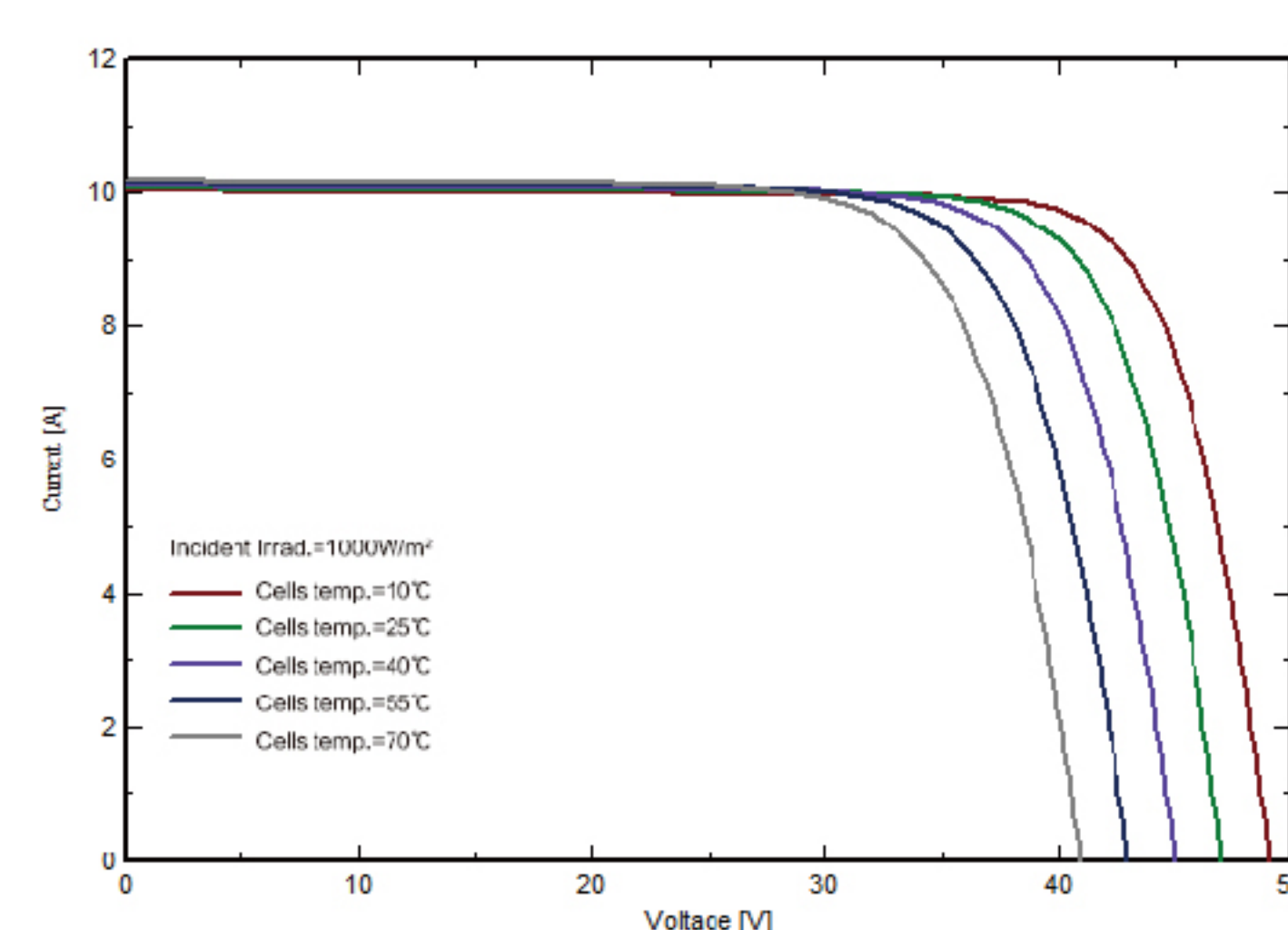
Max System Voltage	1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa (front) /2400Pa (rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve

I-V Curve at different irradiation (SPP385PH7H)



I-V Curve at different temperature (SPP385PH7H)



Module Size

