

TWINSSEL

About Twinsel

Twinsel is a manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Twinsel's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

KEY SELIENT FEATURES



Industry leading lowest temperature co-efficient of power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive power tolerance of 3%



Dual stage 100% EL inspection gurantee defect-free product



Module Imp binning radically reduces string mis-match losses



Warranted reliability and stringent quality assurances are well beyond cetified requirements



Certified to withstand severe environmental conditions

-Anti-reflective & anti-soiling surface minimise power losses from dirt and dust

-Severe salt mist, ammonia & blown sand resistance for seaside, farm and desert environments

-Excellent mechanical load 2400Pa & snow load 5400Pa resistance

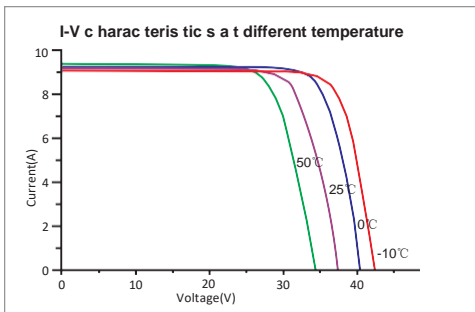
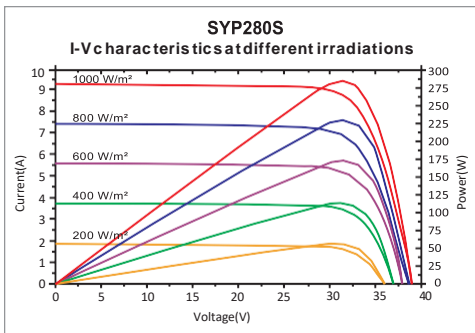
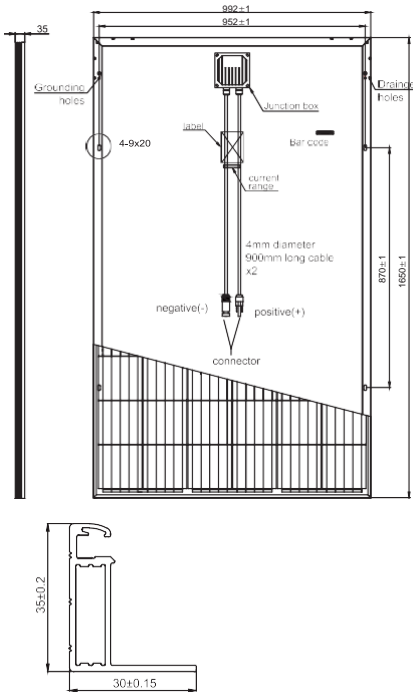


LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty



Dimension of PV Modules Unit: mm



Our Partners :

ELECTRICAL DATA (STC)

Model Number	SYP 270	SYP275	SYP280	SYP285	SYP290
Rated Power in Watts-Pmax(Wp)	270	275	280	285	290
Open Circuit Voltage-Voc(V)	38.4	38.5	38.7	38.8	38.9
Short Circuit Current-Isc(A)	9.27	9.36	9.47	9.56	9.65
Maximum Power Voltage-Vmpp(V)	30.8	31.0	31.2	31.4	31.6
Maximum Power Current-Impp(A)	8.77	8.88	8.98	9.08	9.18
Module Efficiency (%)	16.6	16.9	17.2	17.5	17.7

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA (NOCT)

Model Number	SYP 270	SYP275	SYP280	SYP285	SYP290
Maximum Power-Pmax (Wp)	197.4	201.0	204.7	208.3	211.0
Open Circuit Voltage-Voc (V)	35.2	35.5	35.8	36.2	36.5
Short Circuit Current-Isc (A)	7.31	7.35	7.41	7.45	7.50
Maximum Power Voltage-Vmpp (V)	28.4	28.6	28.9	29.1	29.4
Maximum Power Current-Impp (A)	6.95	7.03	7.09	7.16	7.23

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

M E C H A N I C A L D A T A

Solar cells	Polycrystalline 156.75×156.75 mm
Cell configuration	60 cells (6×10)
Module dimensions	1650×992×35mm
Weight	18kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), 900mm length
Connector	IP67 MC4 Compatible

T E M P E R A T U R E & M A X I M U M R A T I N G S

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	15A
Limiting Reverse Current	15A

P A C K A G I N G C O N F I G U R A T I O N

	40ft	20ft
Number of modules per container	840	360
Number of modules per pallet	30	30
Number of pallets per container	28	12
Packaging box dimensions (LxWxH) in mm	1680×1120×1130	1680×1120×1130
Box gross weight[kg]	590	590

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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