HIPRO TP660M Monocrystalline Solar Module 60 Cell Series







ABOUT TALESUN

Suzhou Talesun Solar Technologies Co., Ltd. is one of the world's largest integrated PV manufacturers. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. With over 6 GW of modules installed globally, we are a leading solar energy company built upon proven product reliability and sustainable performance.

KEY FEATURES

300W Highest power output

15W Higher than industry level

PID Free Certified by TUV Rheinland **10 years** Material & workmanship warranty

25 years Linear power output warranty

• Higher power output: With passivated backside and BSF technology

- Robust design: Certified to withstand up to 2400 Pa wind load and up to 5400 Pa snow load
- Excellent low light performance on cloudy days, mornings and evenings
- High reliability, strict module BOM selection

QUALITY WARRANTY

TALESUN guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 and UL1703 under normal installation, use and maintenance as specified in Talesun's installation manual for 10 years from the warranty starting date.



PERFORMANCE WARRANTY

Monocrystalline Solar Cell Modules

- a) During the first year, TALESUN guarantees the nominal power output of the product will be no less than 97% of the labeled power output.
- b) From year 2 to year 24, the nominal power decline will be no more than 0.7% in each year; by the end of year 25, the nominal power output will be no less than 80% of the labeled power output.

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 - +3%)				
290	295	300		
32.4	32.6	32.9		
8.96	9.05	9.12		
39.3	39.5	39.7		
9.47	9.52	9.58		
17.7	18.0	18.3		
Performance at NOCT				
214	217	221		
29.9	30.1	30.3		
7.17	7.24	7.30		
36.3	36.5	36.7		
7.65	7.69	7.74		
	290 32.4 8.96 39.3 9.47 17.7 nce at NOCT 214 29.9 7.17 36.3	290 295 32.4 32.6 8.96 9.05 39.3 39.5 9.47 9.52 17.7 18.0 nce at NOCT 214 214 217 29.9 30.1 7.17 7.24 36.3 36.5		

*STC: 1000W/m², 25°C,AM 1.5 *NOCT: 800W/m², 20°C, AM 1.5, Wind Speed: 1m/s

MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline
Cell Dimensions	156.75*156.75mm(6inch)
Cell Arrangement	60(6*10)
Weight	18.5kg(40.8lbs)
Module Dimensions	1650*992*35mm(64.96*39.06*1.38inch)
Cable Length	900mm(35.4inch)
Cable Cross Section Size	4mm²(0.006sq.in)
Front Glass	3.2mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	30pcs/Pallet, 840pcs/40hq
Packing Configuration (2)	30pcs+5pcs/Pallet, 910pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP65/IP67

OPERATING CONDITIONS

Maximum System Voltage	1000V/DC(IEC)
Operating Temp.	-40°C -+85°C
Maximum Series Fuse	15A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	Ш
Resistance	≥100MΩ
Connector	MC4 Compatible

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TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.39%/°C
Temperature Coefficient Voc	-0.30%/°C
Temperature Coefficient Isc	+0.05%/°C
NOCT	45±2 °C

I-V CURVE Hipro Pm(W)285



TECHNICAL DRAWINGS

Voltage(V)

— 75°C





Commercial Solar Loline - Installation Overview

Installer: This pictorial guide does not replace the Owners Guide and Installation Instructions supplied with the solar controller. The installation instructions should be read in full and referred to for details. Rheem will not accept any liability for failure to read or install the water heater in accordance with the installation instructions.



Commercial Solar Loline - Installation Overview

Electrical connections



Connection to auxiliary electric water heater

Connection to solar circulator



BMS



Connection to 3 way valve



Tank Sensor

Select a spot at the same level as the hot water outlet and using a 22mm hole saw, drill deep enough to just remove the steel outer casing jacket. The insulation thickness is between 47-54mm depending on the tank, and this should be used as a guide. Clean out the remaining foam insulation by hand until clean bare metal is exposed.

Fit tank sensor assembly securing with the 3 screws supplied.

