

TATA SOLAR GOLD™

World class solar photovoltaic modules for specialty applications



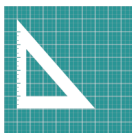
High quality modules manufactured by Tata in India for over 20 years



Rugged and durable design enabling easy installation and long life



Leading edge equipment plus world class processes from BP Solar



Customized models available to meet specific applications



Certified to highest standards worldwide (IEC – TUV Germany, MNRE – India)



Peace of mind guaranteed with Tata Power Solar 25 year module power warranty



PRODUCT FEATURES

- High power output using high efficiency cells and ultra-clear solar glass
- UV resistant, weather-proof junction boxes with bypass diodes
- Torsion and corrosion resistance with anodized screw type aluminium frame
- Higher impact resistance using scratch resistant toughened solar glass

APPLICATIONS

- Lighting: lanterns, indoor and street
- Telecommunication and radio relay stations
- Stand alone systems / telemetry systems
- Defence and offshore requirements
- Signage and outdoor media
- Mobile chargers / outdoor activities

SPECIFICATIONS

- Multiple configurations (36, 48 and 72 cells)
- Multiple wattages (10 to 190Wp)
- Mono and multi-crystalline cells (125mm and 156mm)
- IV curve and specifications available for all products

Modules in the Gold series	Gold				
	10	40	80	100	150

Electrical parameters at standard test conditions (STC)*

	10	40	80	100	150
Nominal power output (W)	10	40	80	100	150
Power tolerance (%)	-5 ~ +5	-5 ~ +5	-5 ~ +5	-5 ~ +5	-5 ~ +5
Voltage at P _{MAX} V _{MPP} (V)	17.6	17.8	17.6	17.6	18.1
Current at P _{MAX} I _{MPP} (A)	0.55	2.22	4.55	5.68	8.27
Open-circuit voltage V _{OC} (V)	21.8	21.8	21.8	21.8	22.5
Short-circuit current I _{SC} (A)	0.60	2.45	4.90	6.15	8.68

Module general characteristics

Number of cells	36	36	36	36	36
Length (mm)	460	651	1205	1202	1504
Width (mm)	288	538	538	661	661
Thickness (mm)	17	38.5	38.5	38.5	38.5
Weight (kg)	1.8	4.0	7.5	9.0	12.0
Frame material	Silver anodized aluminium				
Superstrate	3.2 mm glass				
Substrate	PET				
Encapsulant	EVA				

Environment and operating conditions

Operating temperature range (°C)	-40 and +85
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Warranty

Product warranty (years)	5
Power output warranty (years)	10 (90% of rated power output) 25 (80% of rated power output)

Wide range of Tata Solar Gold series modules include the following: 10, 20, 37, 40, 50, 55, 60, 70, 75, 80, 90, 100, 125, 130, 150 and 190 Wp.

Applications



Stand alone systems for homes with no grid connectivity



Indoor and outdoor lighting



Power packs for remote telecom sites and telemetry stations



Street lighting and community lighting



Offshore installations and hazardous locations



Lighting billboards and outdoor media



Portable mobile phone chargers

YOUR LOCAL DEALER

* Irradiance of 1000W/m², spectrum AM of 1.5 and cell temperature of 25°C
Best in class AAA solar simulator (IEC 60904-9) used, power measurement tolerance ±3%

Listed specifications are subject to change without notice

Tata Power Solar is committed to enabling solar everywhere and bringing the power of the sun to people in the most efficient and cost effective way possible.



For sales, service and other enquiries, email us modules.solar@tatapower.com

www.tatapowersolar.com