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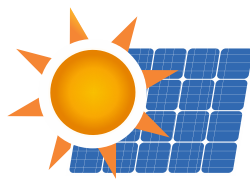
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**Solar Panel Guide**

**Specification Data Sheet**

Learn more at [energypal.com/best-solar-panels-for-homes](https://energypal.com/best-solar-panels-for-homes)



# ADITYAKIRAN

## AK SOLAR PANEL

### *World class solar photovoltaic modules for specialty applications*

Rugged & durable design enabling easy installation & long life

Customized models available to meet specific applications

Peace of mind guaranteed with aditya kiran solar panel

Leading edge-equipment plus world class processes from BP Solar

High quality modules manufactured by aditya kiran in india for over 20 years



#### PRODUCT FEATURES

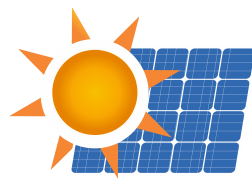
- High power output using high efficiency cells and ultra-clear solar glass
- UV resistant, weather-proof junction boxes with bypass diodes
- Torsion and corrosion resistance with anodized screw type aluminium frame
- Higher impact resistance using scratch resistant toughened solar glass

#### 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 255Wp)
- Mono and multi-crystalline cells (125mm and 156mm)
- IV curve and specifications available for all products



# ADITYAKIRAN

## Modules in the Gold series

Gold

	10	40	80	100	150
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### Electrical parameters at standard test conditions (STC)\*

Nominal power output (W)	10	40	80	100	150
Power tolerance (%)	-5 ~ +5	-5 ~ +5	-5 ~ +5	-5 ~ +5	-5 ~ +5
Voltage at P <sub>MAX</sub> V <sub>MPP</sub> (V)	17.6	17.8	17.6	17.6	18.1
Current at P <sub>MAX</sub> I <sub>MPP</sub> (A)	0.55	2.22	4.55	5.68	8.27
Open-circuit voltage V <sub>oc</sub> (V)	21.8	21.8	21.8	21.8	22.5
Short-circuit current I <sub>sc</sub> (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	7.5	9	12
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 Ak Gold series modules include the following:  
10, 20, 37, 40, 50, 55, 60, 70, 75, 80, 90, 100, 125, 130, 150,  
190, 230, and 255 Wp.

## Applications

Stand alone systems for homes with no grid connectivity

Lighting billboards and outdoor media

Portable mobile phone charger

Street lighting and community lighting

Offshore installations and hazardous locations

Power packs for remote telecom sites & telemetry stations

## ADITYAKIRAN

**Manufacture of Solar Panels & Supplier of LED lights & Solar Projects**

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