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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes



KOTAKSOLAR offers Crystalline Solar Photovoltaic Modules Manufactured in World Class Facility using Most advance Quality Ensuring Production Process Equipments.

KOTAKSOLAR's PV Modules are produced in most stringent Quality Assurance environments exceeding IEC standard requirements.

Features



Best Performance with stable Yields



PID Resistant Raw Materials



Tested and Proven reliability at Reputed Laboratories



Extra Sturdy Frame with Satin Silver Finish for Strength and Look.



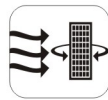
Best Performance even in adverse climatic conditions



Zero Toxic Components & sealants



Air tight Junction Box for Moisture Resistance and Long Life



Tested for Resistance to High Wind & hail loads

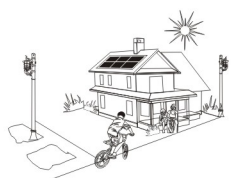


EL Tested Modules



10 Years of Products Warranty and 25 Years of Performance Warranty*

Applications of PV Modules



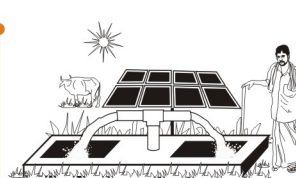
Off-Grid Residential Roof Top System



Off-Grid / On Grid Commercial Roof Top System



Grid Tied Solar Power Plant



Solar Pumping System



Solar Street Lighting System - Rural

PV Modules Range

ARINNA SERIES															
Nominal Power	Watt	10	12	14	20	30	37	40	45	50	60	74	80	90	100
Voltage at Pmax	Vmp	16.92	18.54	18.72	17.5	17.1	18.54	18.36	18.25	18.54	16.92	18.83	18.33	18.36	18.55
Current at Pmax	Imp	0.59	0.65	0.75	1.14	1.75	2	2.18	2.47	2.7	3.55	3.93	4.37	4.9	5.39
Open Circuit Voltage	Voc	21.49	22.36	22.5	21.6	21.54	22.36	22.32	22.63	22.36	21.49	22.42	22.24	22.24	22.28
Short Circuit Current	Isc	0.68	0.74	0.86	1.3	1.88	1.15	2.36	2.63	2.87	3.61	4.2	4.71	5.27	5.83
Length (Height)	mm	445	445	445	360	415	415	470	470	530	1005	1005	905	1005	1005
Width	mm	280	280	280	450	665	665	665	665	665	505	505	665	680	680
Thickness	mm	20	20	20	20	20	20	30	30	30	30	30	30	30	30
No. of Bypass Diode/Rating	10A														
Maximum System Voltage	V	30V					600V								

IMPERIA SERIES		36 Cells Modules				72 Cells Modules			
Nominal Power	Watt	120	125	140	150	150	180	190	200
Voltage at Pmax	Vmp	18.11	18.25	18.25	18.54	37.69	33.84	34.99	36
Current at Pmax	Imp	6.65	6.83	7.67	8.09	3.98	5.32	5.43	5.56
Open Circuit Voltage	Voc	22.03	22.14	22.14	22.36	44.92	42.98	43.2	43.78
Short Circuit Current	Isc	7.05	7.14	8.35	8.6	4.23	5.42	5.87	6.01
Length (Height)	mm	850	850	1005	1005	1005	1325	1325	1325
Width	mm	990	990	990	990	990	990	990	990
Thickness	mm	30	30	34	34	34	45	45	45
Cable Rating	Single Core Sheathed, UV Protective cable 4.0mm ² , Symmetrical Length of 750 mm & MC4 Connectors (One Male and Female Type)								
No. of Bypass Diode/Rating	20A								
Maximum System Voltage	V	1000V							

POWER SERIES		72 Cells Polycrystalline Modules							60 Cells Poly Crystalline Modules		
Nominal Power	Watt	240W	250W	270W	280W	290W	300W	315W	230W	240W	250W
Voltage at Pmax	Vmp	36.72	37.15	36	36.13	37.31	37.08	37.87	30.18	30.42	30.9
Current at Pmax	Imp	6.53	6.72	7.49	7.75	7.78	8.09	8.32	7.62	7.89	8.09
Open Circuit Voltage	Voc	44.5	44.9	43.8	44.1	44.4	44.7	45.0	36.7	36.9	37.3
Short Circuit Current	Isc	6.65	7.05	8.09	8.14	8.31	8.6	8.71	8.2	8.35	8.6
Length (Height)	mm	1635	1635	1955	1955	1955	1955	1955	1635	1635	1635
Width	mm	990	990	990	990	990	990	990	990	990	990
Thickness	mm	45	45	45	45	45	45	45	45	45	45
Cable Rating	Single Core Sheathed, UV Protective cable 4.0mm ² , Symmetrical Length of 750 mm and MC4 Connectors (One Male and Female Type)										
No. of Bypass Diode/Rating	3nos. / 20A										
Maximum System Voltage	1000V										

* Power output measured at standard test conditions of 1000 W/sq.mtr, Module temp-25°C & Airmass 1.5. Power output tolerance : ± 3%

■ (Voc) Open Circuit Voltage ■ (ISC) Short Circuit Current ■ (Vmp) Maximum Voltage ■ (Imp) Maximum Current ■ (Pmax) Maximum Power at STC

Note: Customized Modules are also available

Kotak Urja Reserves the rights to change the product specifications without any notice

10 Years Product Warranty & 25 Years Performance Warranty*

