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Solar Panel Guide
Specification Data Sheet

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

Power Series (5W₀ - 140W₀)





TÜVRheinland **STAR** Rated Company

** tor Quality

▶ Manufacturing excellence

- Certified as per ISO 9001, ISO 14001, OHSAS 18001, SA 8000
- The only solar company in the world to be awarded a 5-Star rating for quality systems by TUV Rhineland two years in a row
- Wide range from 5W to 140W modules

▶ Robust Design

- High quality, low iron, high tranmissivity, tempered and toughened glass to ensure high light absorption
- Premium quality encapsulation material ensuring high quality lamination and field warranties

► Highest Safety Standards

 All modules pre-fabricated with mounting holes to ensure highest safety standards

► Rigorous Quality Control

- Top-of-the-line manufacturing equipment from Europe and Japan backed by in-house reliability testing capabilities
- Certified as per IEC 61215 standards, IEC 61730, IEC 61701 (Salt mist corrosion test)

▶ Best-in-Class Warranty

 Mechanical warranty of 5 years and a performance warranty of 10 years at 90% of rated output power and 15 years at 85% rated output power

Applications

"Power Series" modules are specifically designed for 'standalone solar systems'. They are commonly used for battery back-up systems and perform very efficiently in charging various types of batteries for solar applications like lead acid tubular batteries, flat plate batteries or sealed maintenance-free batteries.

- Residences
- Water Pumps
- Centralised Power Grids
- Remote Telecom installation
- Street Lights
- Lanterns & Solar Home Systems
- Obstruction Lighting
- Standalone Power Packs
- Vaccine Refrigeration

Power Series modules are designed for versatility in usage and are suitable for residential, commercial, industrial and customized applications like water pumps, street lights, solar power packs, solar home systems, telecom, obstruction lights etc.

Power Series (5W_p-140W_p)



ELECTRICAL CHARACTERISTICS	1205P	1210P	1220P	1230P	1240P	1250P		1260P		1275P		1285P	12100P	12125P	12140P
Nominal Power at STC, P _{max} (W)	5	10	20	30	40 45	50	60	65	70	75	80	85	100	125	140
Power Max @16.4V			18		37	45				74					
Current at Pmax, I _{mp} (A)	0.29	0.59	1.18	1.76	2.35 2.65	2.94	3.53	3.82	4.12	4.41	4.71	5.00	5.88	7.18	7.68
Short Circuit Current, I _{sc} (A)	0.35	0.70	1.40	2.10	2.80 3.15	3.50	4.20	4.55	4.90	5.25	5.60	5.95	6.80	7.59	8.24
ltage at Pmax , V _{mp} (V) 17														17.8	18.35
pen circuit voltage, $V_{cc}(V)$ 21														21.6	22.40
OCT (°C) 47														47	45 ± 2
eximum System Voltage (VDC) 600														1000	1000
mperature Coefficient of P _{max} (°K) -0.43														-0.50	-0.45 ± 0.05
nperature Coefficient of V_{oc} (°K) -0.344														-0.35	-0.35 ± 0.05
mperature Coefficient of I _{sc} (°K) 0.11														0.07	-0.115 ± 0.005
Operating Temperature (°C)					-40	to +85									
Storage Temperature (°C)					-40	TO +85									
Standard Test Conditions			Irradi	ance 1000 W	/m², Module	temperatur	e at 25	°C and	AM 150	3 Spectr	um				
MECHANICAL CHARACTERISTICS	1205P	1210P	1220P	1230P	1240P	1250P		1260P		127	75P	1285P	12100P	12125P	12140P
Number of Cells	36	36	36	36	36	36		36		3	6	36	72	72	36
Arrangement of Cells	18x2	9x4	9x4	9x4	9x4	9x4		9x4		9)	< 4	9x4	9x8	9x8	6x6
Cell Size in mm	15x78	26x78	52x78	33x156	52 x156	65 x156		78 x156		105	x156	104 x156	63 x156	78 x156	156x156
Cell Type					Mul	ti Crystalline	Cells								
Dimensions (LxWxT) (mm)	359x197x26	305x357x26	539x357x26	539x666x35	539x665x35	666x667x3	3 79	93x665x3	33	1014x6	66x33	1014x666x33	1353x813x40	1353x813x40	1025x991x37
Veight (kgs)	0.9	1.5	2.5	2.5	4.1	5.5		6.1		7.	6	7.6	13.3	13.3	11.5
rame				Anodized a	ıluminium fr	ame, single	channe	l and so	rew-fi	tted					
ront Glass				Low iron	, tempered a	and textured	l glass :	3.2 mm	(0.126	")					
unction box*					-	erminal junc									IP 65 rated 4 termina
Nounting hole					-	al and 4 nos									1

 $^{^{*}2}$ terminal for (5Wp - 20Wp) and 3 terminal for (30Wp - 80Wp)