



OTTOSSUN
Energy Systems

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PHOTOVOLTAIC MODULES (PV Modules)

Electrical Characteristics

Model	PV-42V	PV-56V	PV-70V	PV-180V	PV-185V	PV-230V	Reno Sol Pan	Neo Sol Pan
	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Polycrystalline	Monocrystalline	Monocrystalline
Max. power (W)	42	56	70	180	185	230	3,5	12,1
Wp/ m ²	111	115	117	141	145	142	70	120
Cells per Module	18	24	30	72	72	60	//	//
Shape of cell	125*125	125*125	125*125	125*125	125*125	156*156	*	*

Open circuit voltage (V)	22,56	14,8	37,08	44.65V	45.40V	36.9V	13,1	18,54
Short circuit current (A)	2,44	5,02	2,44	5.19A	5.27 A	8.27 A	0,35	0,87
Optimal operating voltage (V)	18,53	14,79	30,9	36.95V	37.10V	29.94V	11	15,45
Optimal operating current (A)	2,26	4,75	2,26	4.95A	5.01 A	7.68 A	0,31	0,79
Power tolerance	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%
Temperature coefficient								
Temperature coefficient of Isc	+0.1%/K	+0.1%/K	+0.1%/K	+0.1%/K	+0.1%/K	+0.1%/K	+0.1%/K	+0.1%/K
Temperature coefficient of Voc	-0.38%/K	-0.38%/K	-0.38%/K	-0.38%/K	-0.38%/K	-0.38%/K	-0.38%/K	-0.38%/K
Temperature coefficient of power Pmax	-0.47%/K	-0.47%/K	-0.47%/K	-0.47%/K	-0.47%/K	-0.47%/K	-0.47%/K	-0.47%/K
Number of By Pass Diodes	2	2	2	3	3	4	/	/

Dimensions and weight

Length (mm)	1580	1580	1580	1580	1580	1634	246	355/469,1
Width (mm)	240~270/270~300	308~338/338~368	376~406/406~436	808	808	992	190	304/357,7
Thickness (mm)	25	25	25	45	45	50	25	61,8
Weight (kg)	5,9	7,4	8,8	15	15	19	1,8	1,6
Weight (kg/m ²)	19,2	17,7	17,2	14,3	14,3	12,5	18,9	16
Operating temperature	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C	-40°C ~85 °C
System maximum open circuit voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Module Efficiency (%) minimum	>14,5%	>14,13%	>14,5%	>14,5%	>15%	>14,13	>14,13	>14,5%
FF (%)	76%	75,40%	77%	76%	78%	75,30%	73~75%	76%

Certifications :	CE, IEC 61215 Ed.2, IEC 61730 (Inc. elec. Protection class 2) Manufactured under ISO 9001:2000 certification
Glass / Encapsulant / back sheet	Tempered, anti-reflexion Optiwhite 3,2 mm / EVA : ethyl-vinyl-acetate / Tedlar (black or white)
Surface Maximum Load capacity	(200kg/m ²), tested with load of 2400Pa (130km/h wind pressure with safety factor of 3 for gusty winds)
Allowable hail fall	Tested with 25,4mm ice balls falling at 23,2 m/s (83,5 km/h)
Junction box & connections	IP65 TUV certified junction box with MC4 connections M&F and 900mm of 4mm ² copper cable
Warranty/Garantie	5 years product warranty, 10 years production warranty at 90% of nominal power and 25 years at 80%

* Specifications can be changed at any moment without previous announcement