

PHOTOVOLTAIC MODULES

Monocrystalline silicon PV modules convert direct solar radiation to direct current. Pseudosquare (PSM) or round silicon wafers (RSM) are connected into a module, and sealed hermetically between polyethylene terephthalate tape substrate and 4 mm special shockproof glass. The module is then placed in an aluminium frame.



Advantages:

- Light-weight leak proof construction
- Hail resistance
- Operating temperature range: - 40...+60°C
- Allowable humidity: Relative Humidity up to 100 %
- Energy saving technology

Application:

As the basic or auxiliary power source in a PV energy system for power supply of:

- Homes
- Radio equipment
- TV sets and other domestic appliances
- Automobile storage battery
- Interior and street lighting
- Objects remote from electric mains
- Objects with interrupted power supply
- Water supply and water desalination systems
- Agricultural objects
- Gas stations

And also for

- Cathodic protection



Deeter Electronics Inc. follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice

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Main Technical Characteristics:

The electrical data applies to standard test conditions (STC): Irradiance at the module level of 1000W/m² with spectrum AM 1.5 and module temperature of 25°C.

Module type	Rated peak power, W	Voltage, V		Current, A		Weight, kg	Minimum Overall Dimensions, mm
		rated peak	open-circuit	rated peak	short-circuit		
PSM 0-8	8	17.5	21.0	0.45	0.5	2.2	536x252x46
PSM 0-10	10			0.55	0.6		
PSM 0-12	12			0.65	0.7		
PSM 1-17	17	17.5	21.0	0.95	1.0	3.8	536x462x46
PSM 1-20	20			1.1	1.2		
PSM 1-23	23			1.3	1.35		
PSM 2-40	40	17.5	21.0	2.05	2.15	6.5	1006x462x46
PSM 2-45	45			2.45	2.5		
PSM 2-50	50			2.8	2.9		
PSM 3-80	80	17.5 (p) 35.0 (s)	21.0 (p) 42.0 (s)	4.1 (p) 2.05 (s)	4.3 (p) 2.15 (s)	13	1006x882x46
PSM 3-90	90			4.9 (p) 2.45 (s)	5.0 (p) 2.5 (s)		
PSM 3-100	100			5.6 (p) 2.8 (s)	5.8 (p) 2.9 (s)		
RSM 0-14	14	17.5	21.0	0.75	0.8	3.2	506x402x46
RSM 0-16	16			0.9	0.95		
RSM 0-19	19			1.05	1.1		
RSM 1-28	28	17.5	21.0	1.55	1.6	5.8	1006x402x46
RSM 1-32	32			1.9	1.9		
RSM 1-37	37			2.2	2.2		
RSM 2-41	41	17.5	21.0	2.4	2.4	8.3	1006x602x46
RSM 2-50	50			2.8	2.8		
RSM 2-55	55			3.3	3.3		

(p) = elements connected in parallel

(s) = elements connected in series



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