

# Solar Modules 50 -100 W

EN 06/2013

Solar Modules are designed for industrial and professional applications using scratch resistant anodised aluminum with a twin wall frame. The junction box is borrowed from large sized modules and support a user friendly and outdoor proof field installation. Crystalline cells are sandwiched between tempered low iron solar glass sheets and double layered highly resistant foil.

Please find the technical data on the next page.



Technical Data		Photovoltaic Panel 50		Photovoltaic panel 100	
System voltage	(VDC)	[V]	12		
Power	(Pmp)	[W]	50	100	
Voltage at max. power	(Vmp)	[V]	18.1	18.1	
Current at max. power	(Imp)	[A]	2.76	5.52	
Open circuit voltage	(Voc)	[V]	22.10	22.10	
Short circuit current	(Isc)	[A]	2.93	5.86	
Cell			36	36	
Cell efficiency		[%]	21.9		
Module efficiency		[%]	19.2		
Max. tolerance		[%]	+/- 3		
Operating module temp.		[°C]	-40...+85		
Front	Thickness	[mm]	Tempered glass		
Back side	Colour		white		
Frame	Material		Clear anodized aluminum		
	Colour		silver		
Junction box protection			IP 65		
Dimension	(X/Y/Z)	[mm]	540x670x30	1000x670x30	
Mounting hole Ø	d1	[mm]	15		
Weight		[kg]	4.2	8	
Temperature coefficient	Power	[%]	-0.450		
	Voc	[%]	-0.370		
	Isc	[%]	0.081		
Package type			Single box		