



79 Kempston Rd. Sidwell. Port Elizabeth . P.O Box 263 . Port Elizabeth . 6000

70W - 100W Mono Solar Modules

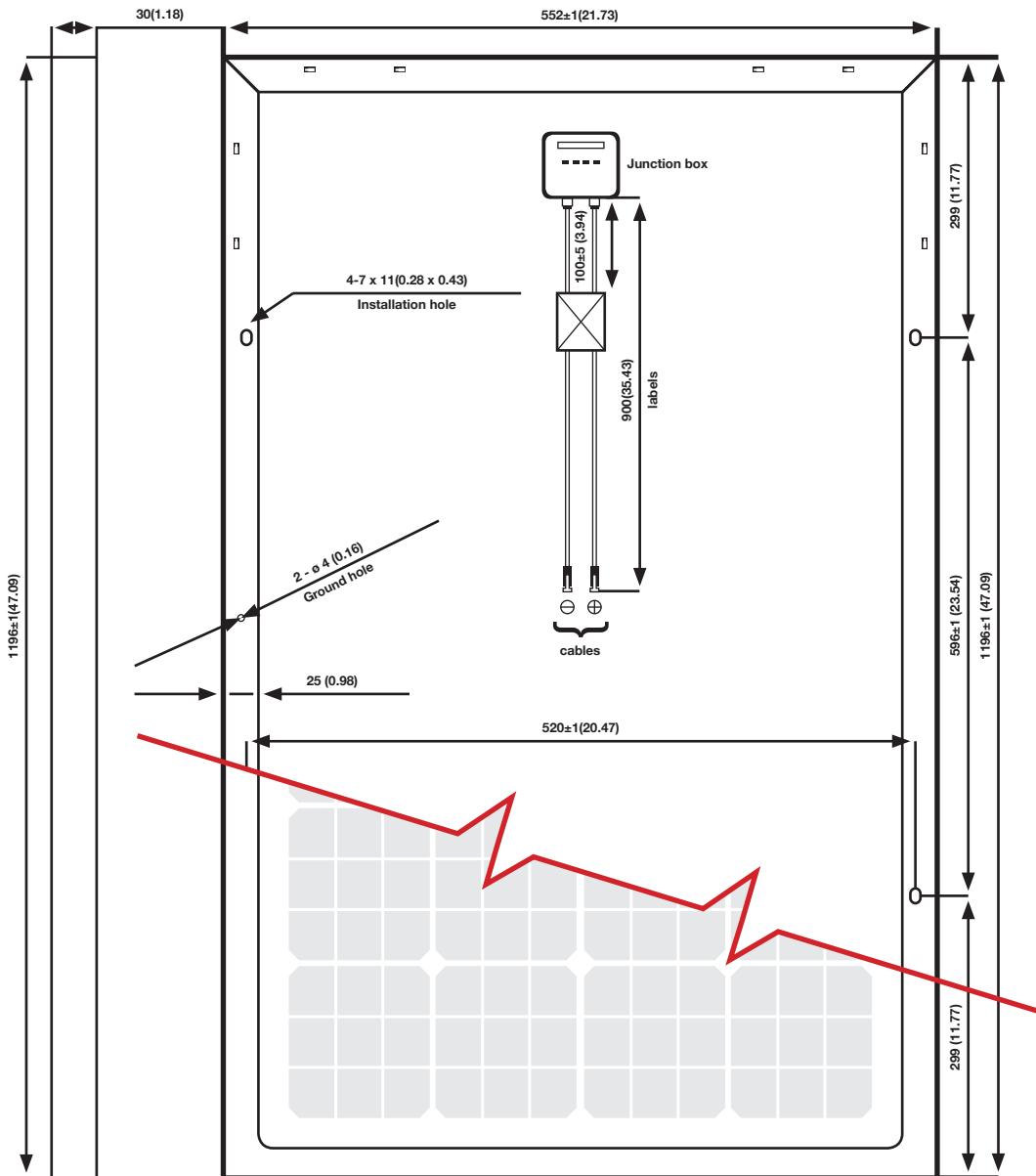
70 - 100W Mono Solar Modules							
Description/Model	70(36)M	75(36)M	80(36)M	85(36)M	90(36)M	95(36)M	100(36)M
Rated Max. Power (Mp):	70	75	80	85	90	95	100
Open circuit voltage (Voc):	21.60	21.96	21.96	21.96	22.32	22.32	22.68
Short circuit current (Isc):	4.91	4.94	4.84	4.95	5.15	5.31	5.47
Max. power voltage (Vmp):	16.56	17.64	18.00	18.00	18.72	19.08	19.44
Max. power current (Imp):	4.23	4.26	4.45	4.73	4.81	4.98	5.15
Cell efficiency (%):	13.00%	13.75%	14.50%	15.25%	16.00%	17.00%	18.00%
Max system voltage (VDC):	750V DC						
Temperature coefficient of Vm:	-0.35%/K						
Temperature coefficient of Im:	0.035%/K						
Temperature coefficient of power:	-0.47%/K						
Max. Series fuse rating:	10 A						
Solar cell and configuration:	4*9 matrix connected in series, monocrystalline (125*125)						
Junction box:	IP65, 1000 VDC, TUV certified; 2 pcs Schottky By-pass diodes						
Cable & connector:	4 mm ² , TUV certified, 0.9m length						
Encapsulation:	low iron tempered glass, 3.2mm thickness, light transmission above 91%; TPT and fast care EVA						
Frame:	clear anodized aluminum alloy, 35mm thickness, silver						
Dimension (L x W x H):	1196 x 552 x 35mm						
Weight:	8kg						
Heavy mechanical load and salient features:	2400Pa (according to IEC61215)						
Hail impact test:	Ice ball diameter 25mm. 23m/s						
Operating temperature:	-40°C - +80°C						
Standard test conditions:	STC: AM1 = 1.5, 1000W/m ² and cell temperature 25°C						
Power tolerance:	±3%; Voc / Isc / Vmp / Imp tolerance: ±10%						



MODULE MAX

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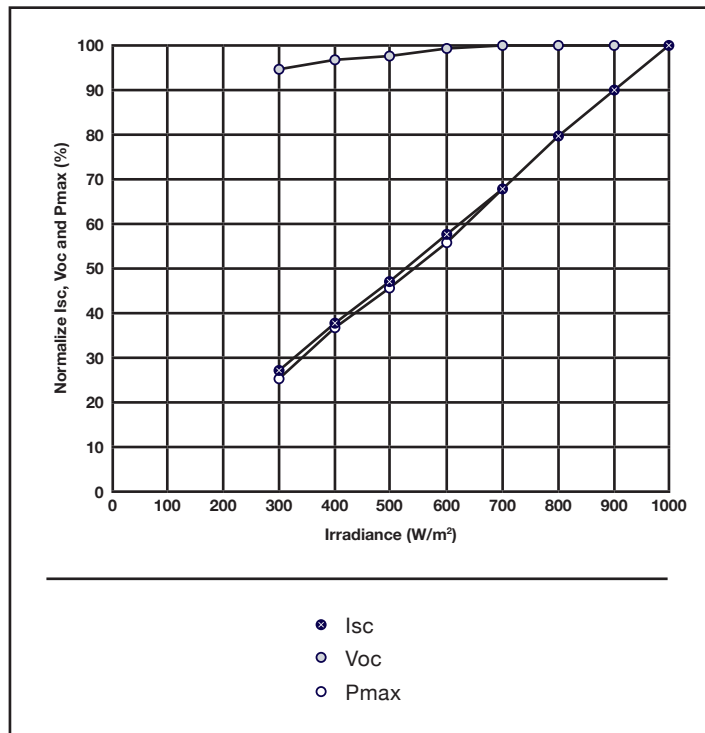




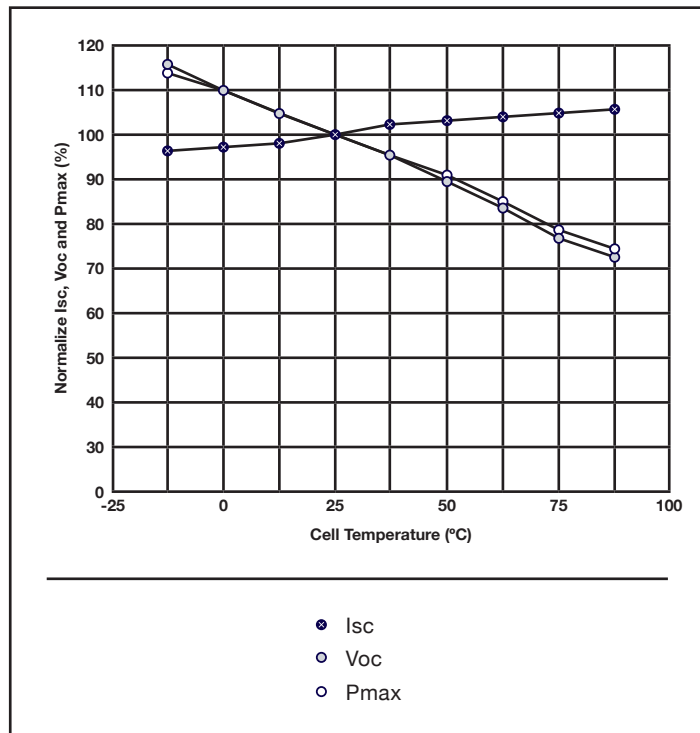
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Temperature dependence of Isc, Voc and Pmax



Irradiance dependence of Isc, Voc and Pmax (25°C)



Current-Voltage & Power-Voltage Curve (75W, 25°C)

