

## Technical Data Sheet

Model	<b>M-GCS107E090</b>
Celltype	CIGS
Usage	outside

### Values correspond to 1000W/m<sup>2</sup>, AM1,5 and 25°C (STC)

Rated Power	[Pmax]	90,0	W
Rated Voltage	[Vmpp]	70,8	V
Rated Current	[Impp]	1,27	A
Open circuit voltage	[Voc]	89,4	V
Short circuit current	[Isc]	1,41	A
Open circuit voltage at -10°C		98,5	V
Total bypassdiode		1	Unit

### NOCT (Nominal Operating Cell Temperature)

Values correspond to I=800W/m <sup>2</sup> , Tu=20°C, Wind speed Vw=1m/s (NOCT)	47±3	°C
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### System design characteristics

Maximum system voltage		1000	V
Reverse current load	[IR]	3	A
Power Tolerance		+5	W
Module Operating Temperature		-40...+85	°C
Maximum surface load		2400	N/m <sup>2</sup>

Modules require grounding of the DC-generator minus pole

### Temperature coefficient

Temperature coefficient open circuit voltage		-0,29	% / °C
Temperature coefficient rated power		-0,36	% / °C
Temperature coefficient rated current		0,05	% / °C

### Mechanical characteristics

Length		1200	mm
Width		600	mm
Module height (with junction box)		27	mm
Bond height (glass + foil + glass)		7,8	mm
Cover glass height		4	mm
Weight		13,1	kg

### Module assembling

Cover glass	solar glass
Framing	Without
Electrical connector	HC4
Junction box	Hirschmann box

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