

ZM9091 Technical data

Design and Mechanical data

NOMINAL POWER	Pncm	5 WP
nominal maximum output voltage	Umpp	16.8V
nominal maximum output current	Impp	0.3A
Open-circuit voltage	Upc	21V
Short-circuit current	I	0.38A

Dimensions (tolerance +4/-1mm)	254X294
Thickness (tolerances ± 1 mm)	23MM
weight: 0.8 kgs	

Characteristic data

solar cells per module	
type of solar cells	Mono crystalline 125mmx125mm
Connection	connection box with bypass diodes 50cm leading cable length of poles (-) 1.1m, (+)1.4m

Temperature

Power	Tk (Pn)	- 0.47%/°C
Open-circuit voltage	Tk (Upc)	- 0.38%/°C
Short-circuit current	Tk (I)	+ 0.10%/°C

Limits

MAX SYSTEM VOLTAGE	1000Voc
OPENING MODULE TEMPERATURE	- 40+ 90°C
MAX LOAD	5400N/M2
Tolerance	$\pm 5\%$

Note: all the panels should be black background and black alluminum frame

cell efficiency: 15-16%

Module efficiency: 14.5-15.8%