



I-22

Photovoltaic module

CHARACTERISTICS	
PHYSICAL	
Length	540 mm
Width	440 mm
Thickness	20 mm
Weight	3 kg
Number of cells in series	36 1/2
Number of cells in parallel	1
NOCT (800 W/m ² , 20 °C, AM 1.5, 1m/s)	47 °C
ELECTRICAL (1000 W/m², 25 °C cel, AM 1.5)	
Nominal voltage (V_n)	12 V
Maximum power (P_{max})	22 W _P ± 10 %
Short-circuit current (I_{sc})	1,64 A
Open circuit voltage (V_{oc})	21,6 V
Maximum power current (I_{max})	1,26 A
Maximum power voltage (V_{max})	17,4 V
CONSTRUCTIVE	
Cells	Single-crystal Si, textured and antireflectivity layered
Contacts	Redundant contacts on each cell for circuit reliability
Laminate	EVA (ethylene vinyl acetate)
Front face	Tempered glass with improved light transmission
Back face	Tough multi-layered backsheet Tedlar
Frame	Anodised aluminium
Connection	2 x 1,5 mm ² double coated cables (length 1,8 m)