



CT SolarMarine

HIGH EFFICIENCY PHOTOVOLTAIC MODULE



DESCRIPTION

CT SolarMarine photovoltaic modules provides you reliable clean energy in your marine environment and conditions.

Corrosion resistant, rugged and ultra thin light weight design make the modules highly suitable for every boater's need

The modules comes with a 5-year warranty.



PERFORMANCE*

Model	CT30SolarMarine	CT60SolarMarine	CT90SolarMarine
Nominal power (W_p)	30	60	90
Nominal voltage (V_{nom})	12	12	12
Cell efficiency	>17,5%	>17,5%	>17,5%
Voltage (V_{mp})	18,5	18,5	17,9
Current (A_{mp})	1,63	3,25	5,02
Max. voltage (V_{oc})	22,5	22,5	21,9
Max. current (A_{sc})	1,81	3,61	5,47
Length (mm)	665	1196,5	1021
Width (mm)	342	312	654
Thickness (mm)	3,5	3,5	3,5
Weight (kg)	1,4	2,7	4,8
Connection cable (m) 18AWG	0,5	0,5	1

Temperature coefficients	
NOCT (normal operating cell temperature)	45 °C
TC_{mpp}	-0,45%/K
TV_{oc}	-0,346%/K
TC_{isc}	0,065%/K
Operating temperature range	-40 - +85 °C

*Performance under Standard Test Condition (STC) 1000 w/m², 25°C celltemperature, Air Mass 1,5

COMPONENT MATERIAL

Model	CT30SolarMarine	CT60SolarMarine	CT90SolarMarine
Cells per module	36	72	72
Cell type	Poly crystalline		
Cell dimensions (mm)	156x26	156x26	156x52
Superstrate	PET (flat) / ETFE (anti-slipping)		
Substrate	Anodized marine-grade aluminium alloy (silver)		
Junction box	IP67		
Connection cable (m) 18AWG	0,5	0,5	1