20w Solar Power Module

Papercast solar panel modules have been designed for sustained high performance and to complement the contemporary design of our e-paper displays.

SOLAR PANEL

Peak power (Pmax) [W]	20
Power Tolerance [W]	0/+5
P max voltage (Vmp) [V]	17.4v
P max current (Imp) [A]	1.15A
Open circuit voltage (Voc) [V]	22.4v
Short circuit current (ISC) [A]	1.23A
Cell efficiency [%]	16.6%
Operating temperature	-45 °C ~ +80 °C
Type of cell	36 (2x18) Polycrystalline cells

OVERALL MECHANICAL

Dimensions (L x W x H)	447 x 345 x 418 mm
Weight	12kg
Colour	RAL 7046
IP rating	IP65
Construction	Stainless steel
Flame Retardancy	UL94/VO

BATTERY MODULE

Nominal Voltage	12.8V
Nominal Capacity	24Ah
Approx. weight	4.5kg
Dimension (L x W x H)	77 x 167 x 181 mm
Internal Resistance	≤20m Ω (fully charged)
System Max. Discharge Current	5A
Max. Charge Current	12A
Operating temperature range	Charge: 0°C + 60°C Discharge: -20°C +60ºC

CERTIFICATIONS

Certificate of Conformity, Environmental, Electromagnetic Compatibility (EMC), Radio Equipment Directive (RED), Ingress Protection Rating (min IP65), Impact Protection Rating (min IK08)