

# Technical details

# Sandtoft

## Electrical Performance

Module type	PLM-125MB-24 SERIES		
Power output	$P_{max}$	$W_p$	125
Voltage at $P_{max}$	$V_{mpp}$	V	13.33
Current at $P_{max}$	$I_{mpp}$	A	9.38
Open circuit voltage	$V_{oc}$	V	16.22
Short-circuit current	$I_{sc}$	A	9.79
Module efficiency	Eff.	%	18.2

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-3

Power measurement uncertainty is within +/- 3%

## Thermal Characteristics

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of $P_{max}$	$\gamma$	%/°C	-0.40
Temperature coefficient of $V_{oc}$	$\beta_{V_{oc}}$	%/°C	-0.30
Temperature coefficient of $I_{sc}$	$\alpha_{I_{sc}}$	%/°C	0.06

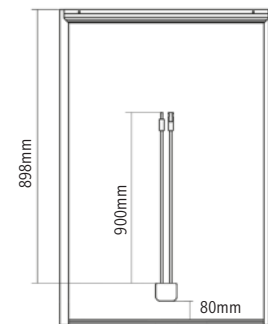
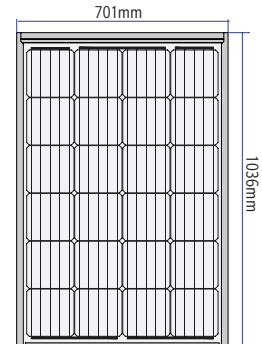
## Operating Conditions

Max. system voltage	1000VDC
Limiting reverse current	15A
Operating temperature range	-14°C to 85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g. wind)	3420Pa

## Mechanical Characteristics

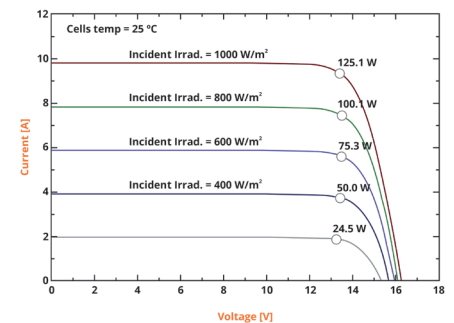
Front cover (material / thickness)	low-iron tempered glass/3.2mm
Backsheet (colour)	black
Cell (quantity/material/dimensions)	24/monocrystalline silicon/ 156.75x156.75mm
Frame (material/colour)	anodized aluminium alloy/black
Junction box (protection degree)	≥IP67
Cables & Plug connectors	900mm/4mm <sup>2</sup> & MC4 compatible/IP67
Module Dimensions (L/W/H)	1036mmx701mmx24.5mm
Module Weight	8.95kg

## Front and back profile



## Irradiance I-V Curve

Showing how the current, power and voltage is affected by different light.



## Cell Temperature I-V Curve

Showing how the voltage is affected by cell temperature.

