

Wendy Trousdale

From: MARTIN LINTON
Sent: 22 August 2011 11:37
To: Planning
Subject: Ref; NYM/2011/0493/NEW

This is to confirm that the scale of the location plan submitted is 1:2500 and you have my submission to add this to the plan. I will e mail copies of the brochures for the panels separately.

Thanks
Martin Linton

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NYM/11/A
22 AUG 2011

V ndy Trousdale

From: MARTIN LINTON
Sent: 22 August 2011 11:45
To: Planning
Subject: Fw: Planning information;Ref NYM/2011/0493/NEW
Attachments: image001.jpg; Westech_MonoPLM-170_spec_100412 (3).pdf

As requested these attachments hopefully have the required information.

Thanks
Martin Linton

--- On **Mon, 22/8/11, Richard Nicholls**

wrote:

From: Richard Nicholls
Subject: Planning information
To:
Date: Monday, 22 August, 2011, 11:26



Dear Mr Linton

Further to our conversation this morning, please find attached the documentation requested for your planning ap

I hope this will be satisfactory, but should you require anything further please do not hesitate to contact me. If you keep me advised with regards to the progress of the planning application, this would be appreciated.

Kind regards,

Richard Nicholls

Company Administrator

YESrenewables

Unit 12 Beck Road

Ringway Industrial Estate

Huddersfield

HD1 5DG



WesTech Solar (UK) Ltd.

9 Grange Court, Oxford, OX2 9BJ

www.westech-solar.co.uk

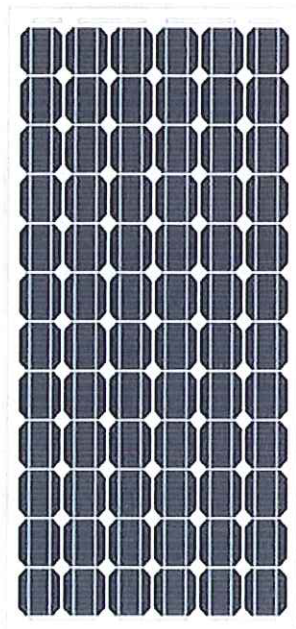
NYM / 2011 / 0493 / FL 1



PLM-170 SERIES

Renewable Energy

Power Your Life



185 Watt Monocrystalline Solar Modules

Features

NYMNDP
22 AUG 2011

- * High efficiency crystalline solar cell (up to 17.3%) to produce maximum power output
- * Solar Module: high module conversion efficiency (up to 15%) through superior manufacturing technology
- * Tempered Glass: anti-reflective hydrophobic coating and high transmission rate glass increase the power output and mechanical strength of solar module, provide self-cleaning
- * Backsheet: using EVA (Ethylene-vinyl acetate) & DNP (Dai Nippon Printing) for degradation and discoloration mechanisms and formulation modifications for improved photostability; preventing destroying and water proof
- * Frame: Anodized aluminium alloy. Designed without screws, corner connected. 8 holes on the frame for easy installation
- * Junction Box: MC4 multifunction junction box with water proof
- * Long lifetime: ≥ 25 years; less power decrease
- * Withstands high wind loads 2400 Pascal, snow loads 5400 Pascal and hailstone impact 25mm at 23metre/second and extreme temperature variations
- * Resisting moisture and etching effectively, not effect by geology

Reliable Performance Over Time

- Operating under international standards: ISO 9001 : 2008 and ISO 14001 : 2004
- Certification and standards: IEC 61215 and IEC 61730, conformity to CE

Warranty

- 25 year transferrable power output warrant 90%/12 years, 80%/25 years
- 5 year material and workmanship warranty

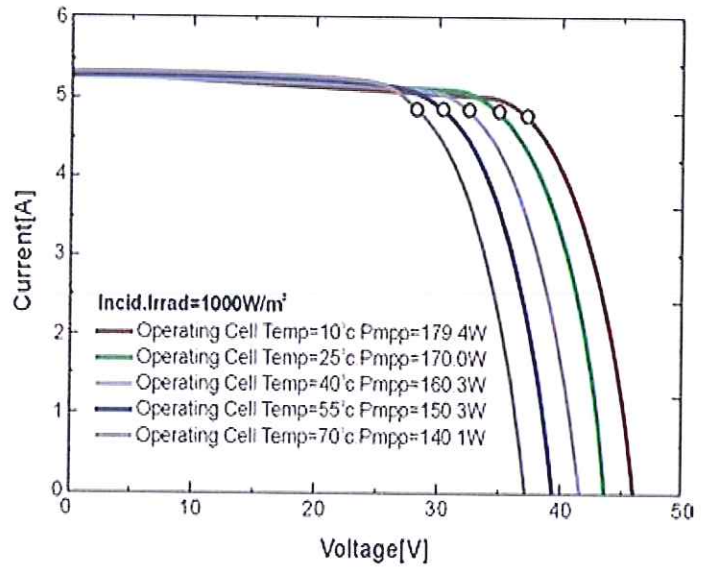
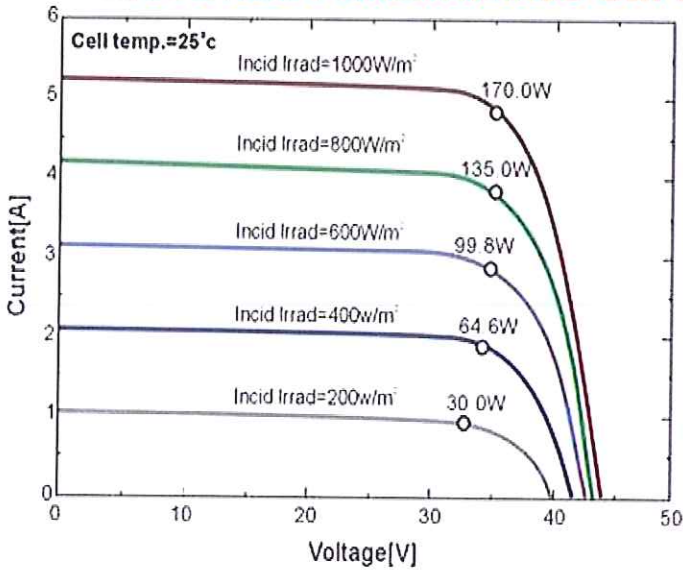


Certificate No: MCS BBA 0005

Eligible for feed-in tariff in UK

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Electrical Performance Curves



TEMPERATURE COEFFICIENT

NOCT*	47°C±2°C
Temperature coefficient of Isc	0.030%/°C
Temperature coefficient of Voc	-0.333%/°C
Temperature coefficient of Pmax	-0.459%/°C

* NOCT: Normal Operating Cell Temperature

QUALIFICATION TEST PARAMETERS

Temperature cycling range	-40°C~85°C
Humidity freeze, damp heat	85%RH
Static load front and back (e.g. wind)	2400 pa (50psf)
Front loading (e.g. snow)	5400 pa (113psf)
Hailstone impact	25mm (1 inch) at 23 m/s (52mph)

ELECTRIC CHARACTERISTICS

Model	PLM-185/24	PLM-180/24	PLM-175/24	PLM-170/24	PLM-165/24
Maximum Power (Wp)	185 Wp	180 Wp	175 Wp	170 Wp	165 Wp
Open circuit voltage (Voc)	44.6 V	44.6 V	44.2 V	44.1 V	43.9 V
Short circuit current (Isc)	5.46 A	5.30 A	5.22 A	5.17 A	5.14 A
Voltage at Pmax (Vpm)	36.8V	36.8V	36.4V	36.0V	35.7V
Current at Pmax (Ipm)	5.03A	4.89A	4.81A	4.72A	4.62A
Solar Cell Efficiency	17.30%	16.85%	16.5%	16.0%	15.6%
Solar Module Efficiency	15.0%	14.66%	14.25%	13.90%	13.45%
Cells	125*125 Mono-crystalline silicon				
No. of cells and connections	72 in series				
Maximum System Voltage	1000VDC				
Series Fuse Rating	10A				

(STC) Standard Test Conditions: Irradiance 1000W/m² , Temperature 25°C, AM=1.5

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