Design & Access Statement for The Orange Tree



Introduction

This is an application for a new sewage treatment plant, new windows, new replacement slates to roof (including solar panels) and a Greenhouse to the land at the rear at The Orange Tree, Rosedale East, Near Pickering, N.Yorks. YO18 8RH.

The applicant is Mr. Edward J. Harpin.

Existing Site

The Orange Tree currently provides B&B type accommodation midweek with full board relaxation breaks at weekends. The Orange Tree is built in rendered brick with a slate roof. The property is accessed from Daleside Road. It is situated in the North Yorkshire Moors National Park, 2 miles from the village of Rosedale Abbey.

There is a car park to the rear of the property.

The applicant has been the owner of the property since January 2011.

Proposal

The current septic tank system is to be replaced with a much more environmentally friendly sewage treatment plant.

The proposed new windows are to replace the current single glazed timber windows that are too badly rotten to repair to a satisfactory level.

New roof including solar PV panels.

New Greenhouse

Access

Access is from Daleside road into a car park to the rear. There is a front door at road level for disabled access.

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Design & Materials

The sewage treatment system will be a WPL Diamond DMC (21 to 55 people) it has an underground tank with only the access manholes visible. This will drain to an existing land drain.

The proposed new windows will be double glazed with frames made of powder coated aluminium in a similar style to the existing, including the same transom pattern. They will be in a grey colour. The reason for choosing aluminium is due to its environmental credentials (as opposed to upvc). Due to the Orange Tree's exposed position the windows have to withstand severe weather conditions, these windows have been designed for that purpose.

The Greenhouse will be "Victorian style" with brick base and with a glazed steel frame.

Planning.

The proposed new windows will increase the insulation to the property and greatly reduce maintenance work.

The sewage treatment plant will provide a more environmentally friendly and efficient solution to the sewage treatment.

We would very much like for the Orange Tree to become an example of an environmentally friendly and sustainable business within the North York Moors National Park. The Greenhouse will enable us to grow more of our own produce for our vegetarian menus and also provide a resource for land based courses that we would like to run here (permaculture and biodynamics).

Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module £146.30

Weight: 19.00 KGS

19.00 No.3 Availability: For Pricing Call us on 1203 287 8283 or Email us at Infogrenugen.co.uk

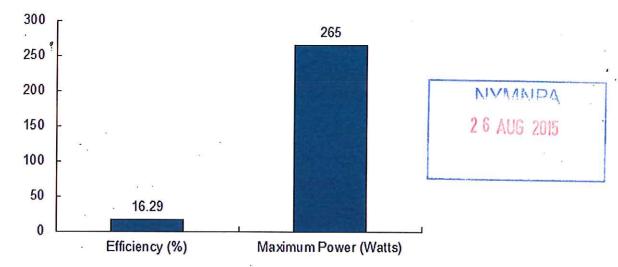
Quantity: Share on email Share on print

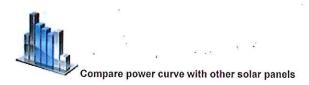
Product Description

Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module — this is an independent review for Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module we have compiled for your reference. Feel free to add your comments or experiences at the bottom of the page.

Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module power output and efficiency

The graph below shows the typical power produced (in Watts) for the Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module has a maximum output of 265 Watt. The graph below also shows the efficiency of Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module has a maximum output of 265 Watt. The graph below also shows the efficiency of Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module. Efficiency is an important thing to look at when comparing solar panels, since it affects how much power can be captured from the sun. The Seraphim SRP-265-6MB All Black 265 Watt Solar Panel Module has a module efficiency of 16.29%.





TECHNICAL		
SPECIFICATIONS		
GENERAL		
Manufacturer	Seraphim	*
Model	SRP-265-6MB	
Material	Monocrystalline	¥
Rated Power/Nominal Output	265	Wp
Module Efficiency	16.29	%
MECHANICAL DATA		

₹		
Cell size	1.56 x 1.56	cm ²
Number of cells and connections	.60	9
Length:	164.00	cm
Width: Depth:	99.20 . 4.00	cm cm
Weight:	19.00	kg
Maximum mechanical load	g g	kN/m²
Front glass	3.2 mm tempered glass, low iron	
Frame	Anodized/ Electrophoretic aluminum aloy	*
Junction box	IP65/IP67	
Cable	0.4 cm2, symmetrical lengths 90cm	cm
Connector Type:	MC4 Compatible	

ELECTRICAL DATA (AT Wp 265 V 37.68 9.13

Maximum power point V 31.68 voltage Vmpp: Maximum power point 8:36 A current Impp:

Pallet Size:

Maximum power Pmax

Short circuit current Isc

Open circuit voltage Voc:

STC)

Module Efficiency 16.29 %

ELECTRICAL DATA (AT NOCT) Maximum power Pmax Wp Open circuit voltage Voc: V Short circuit current Isc A Voltage at point of maximum power Vmpp



Nominal	Operating Cell
Temperat	ture NOCT

45±2°

C

LIMIT VALUES		
Maximum System Voltage	2 1000	V DC (IEC)
Over-current protection		A
Temperature range	-40°C ~ +85°C	C
TEMPERATURE COEFFICIENT		
Pmax	-0.43 %/°C	%/C
Voc	-0.35 %/°C	%/C
Isc	+0.04 %/°C	%/C
GUDDODE		
SUPPORT		
MCS certificate Guarantee/Warranty	Yes 10 years guarantee on product material12 years guarantee on 90% minimum output25 years guarantee on 80% minimum output	
MCS certificate	10 years guarantee on product material12 years guarantee on 90% minimum output25 years guarantee on 80%	
MCS certificate Guarantee/Warranty CERTIFICATES AND	10 years guarantee on product material12 years guarantee on 90% minimum output25 years guarantee on 80%	
MCS certificate Guarantee/Warranty CERTIFICATES AND APPROVALS Certificate ISO 14001 Certificate ISO 18001	10 years guarantee on product material12 years guarantee on 90% minimum output25 years guarantee on 80%	

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