



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

OGRE Series Solar Modules.

NI / I / 2 / ABCD / T5Ta = -40°C to +90°C ; IP65

OGRE Series Solar Modules				
Model Description	Max Power	Nominal Voltage	Open Circuit Voc	Short Circuit Isc
OGRE P010-J12	10 Watts	12 V	21.7 Voc	0.62 Isc
OGRE P020-J12	20 Watts	12 V	21.7 Voc	1.21 Isc
OGRE P030-J12	30 Watts	12 V	21.7 Voc	1.85 Isc
OGRE P040-J12	40 Watts	12 V	21.7 Voc	2.47 Isc
OGRE B060-J12	60 Watts	12 V	20.3 Voc	3.99 Isc
OGRE B090-J12	90 Watts	12 V	20.4 Voc	5.92 Isc
OGRE B110-J12	110 Watts	12 V	19.4 Voc	7.66 Isc
OGRE B110-J24	110 Watts	24 V	38.7 Voc	3.83 Isc
OGRE B130-J12	130 Watts	12 V	24.1 Voc	7.11 Isc
OGRE B130-J24	130 Watts	24 V	48.2 Voc	3.56 Isc

Special Conditions of Use:

1) In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code (C22.1).

Equipment Ratings:

Electrical apparatus for use in Class I, Division 2, Groups A, B, C and D indoor/outdoor Type IP65 hazardous locations. Temperature Classification of T5 @ Ta = -40°C to +90°C.



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FM Approved for:

**Off Grid Renewable Energy (OGRE)
Oklahoma City, OK 73116**



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

C22.2 No. 213	2004
C22.2 No. 142	1990
C22.2 No. 60529	2001

Original Project ID: 3042410C

Approval Granted: April 4th, 2011

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

Timothy Adam
Technical Team Manager

April 4th, 2011
Date