

Demand Response Enabling Device

Installation and Operation Manual



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Please record the serial number of your inverter and quote this when you contact us.



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1. Introduction

1.1 Product Description

Demand Response Enabling Device is used for inverters which have no DRM intergrated.

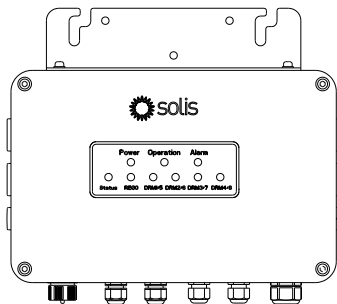


Figure 1.1 Front side view

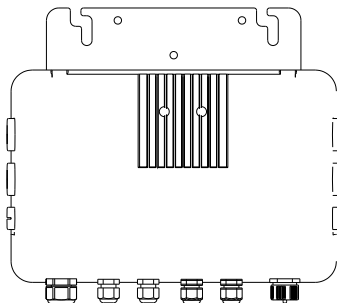


Figure 1.2 Back side view

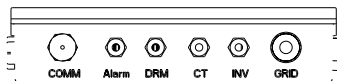


Figure 1.3 Bottom side view

1. Introduction

1.2 Packaging

When you receive the DRM, please ensure that all the parts listed below are included:



1



2

Figure 1.4 Parts

Part #	Description	Number
1	DRM Device	1
2	Manual	1

Table 1.1 Parts list

2. Overview

2.Safety Instructions

2.1 Front Panel Display



Figure 2.1 Front Panel Display

2.2 LED Status Indicator Lights

There are three LED status indicator lights at the top of the front panel of the device.
Left LED: POWER LED (red) indicates the power status of the inverter.
Middle LED: OPERATION LED (green) indicates the operation status.
Right LED: ALARM LED (yellow) indicates the alarm status.
Please see Table 2.1 for details.

And there are six LED status indicator lights at the bottom of the front panel of the device.
Please see Table 2.2 for details

Light	Status	Description
POWER	ON	DRM power on
	OFF	DRM power off
OPERATION	ON(Twinkle)	DRM is sending the data to inverter
	OFF	No communication with inverter
ALARM	Twinkle	Receiving the data from inverter
	Light steady	No communication with inverter

Table 2.1 Status Indicator Lights

Light	Status	Description
Status	ON	DRM is operating normally
	OFF	DRM is operating abnormally or the DRM device is abnormal
REG0	ON	DRM is in the state of REG0
	OFF	DRM isn't in the state of REG0
DRM1/5	ON	Communication with DRM1/5 port
DRM2/6	ON	Communication with DRM2/6 port
DRM3/7	ON	Communication with DRM3/7 port
DRM4/8	ON	Communication with DRM4/8 port

Table 2.2 Status Indicator Lights

3. Installation

3.1 Select a Location for the EPM

To select a location for the DRM, the following criteria should be considered:

- The temperature of the DRM could up to 75°C.
- The DRM is designed to work in extreme temperature range is from -25°C to 60°C.
- The DRM should be kept minimum 300mm clearance from the other device.

3.2 Installation

DRM is designed to mount on the wall.

According to the figure 3.1, select the mounting height of the DRM and mark the mounting holes. For brick walls, the position of the holes should be suitable for the expansion bolts.

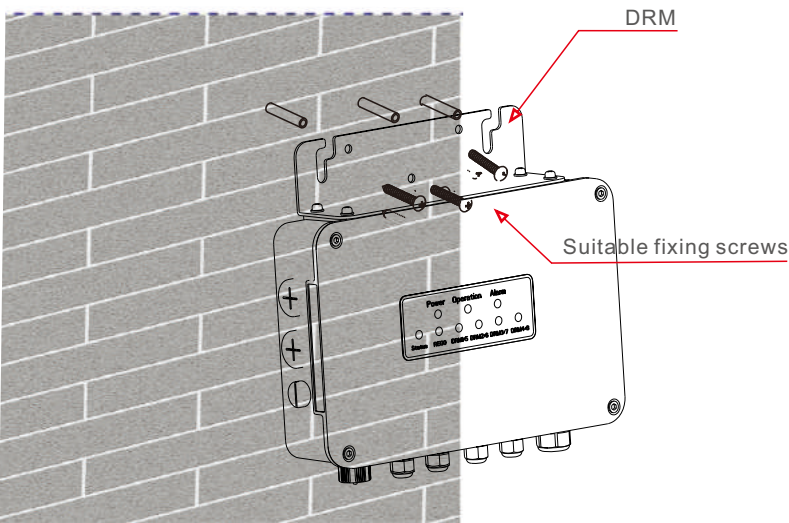


Figure 3.1 Inverter wall mounting

3. Installation

3.3 Electrical Connections

System connection diagram is as follows(see Figure 3.2):

The meaning of the symbols located at bottom of the DRM is listed in Table 3.1.

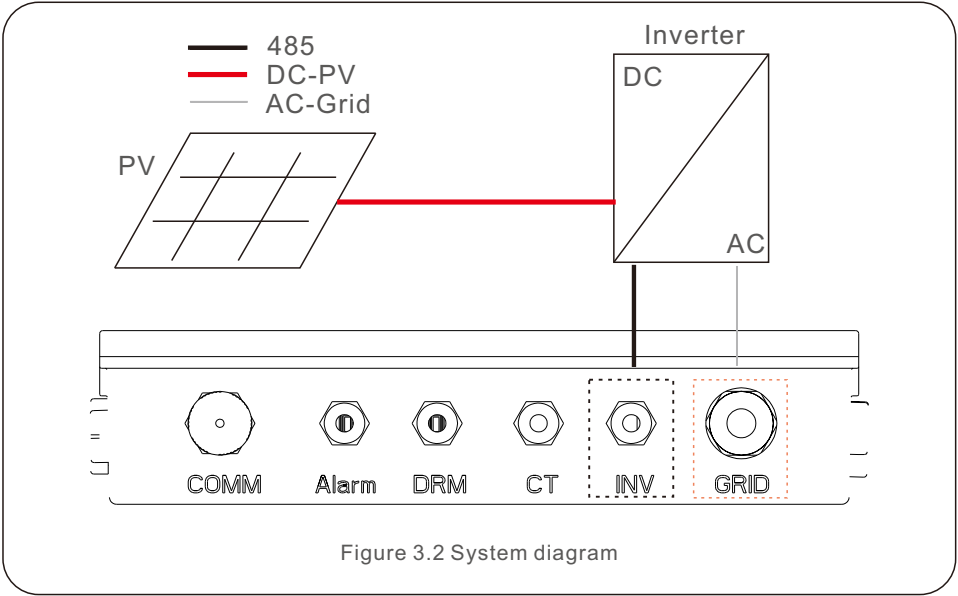


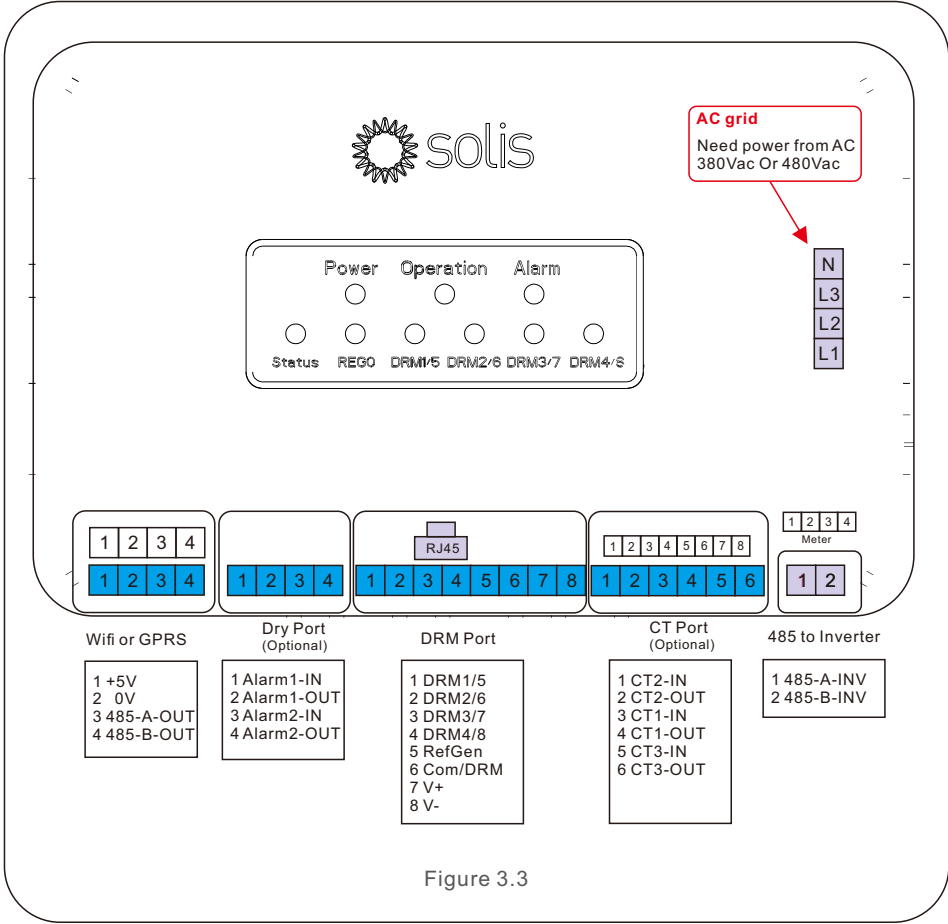
Figure 3.2 System diagram

COMM	Communicate with WIFI or GPRS
Alarm	Connected to dry port
DRM	Connected to user DRM
CT(optional)	Connected to CT
INV	Communicate with inverter
GRID	Connected to grid AC power

Table 3.1 The meaning of the symbols located at bottom of the DRM

The detail connection diagram of DRM PCB is shown in Figure 3.3

3. Installation



4. Specifications

4.1 Technical Specifications

Model Number	Solis-DRM-1G
Input range	200-480V
Output Voltage	12V
Output Current	1A
Nominal Frequency	50/60Hz
Power Consumption	<3W
Ambient Temperature Range	-25~60℃
Ingress Protection	IP65
Dimensions (W*H*D)	262*240*60cm
Weight	1.72kg