



Limited Modular Approval Request Letter

Subject: Limited Modular Approval
Product model designation: V2P53
Date: 2017 / 06 / 23
FCC ID: X6W-V2P53

We **Power-One Italy S.p.A.**, hereby authorize EMC Cert DR. RAŠEK GmbH to have our **model V2P53** approved under limited modular approval authorization.

The application of this module is specific to mobile host equipment.

The requirements regulated in Public Notice DA00-1407 have been fulfilled and clearly explained below:

(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.

[Power-One Italy]

The radio element of the modular transmitter is not provided with a shield.

(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation. 85

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Part 15C requirements are met.

Refer to the results shown on Test Report released by GSD Laboratories.

(iii) The modular transmitter must have its own power supply regulation.

[Power-One Italy]

Yes, the modular transmitter has its own power supply regulation.

(iv) The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). The “professional installation” provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.

[Power-One Italy]

The system uses external antenna.

The connection is provided using a reverse SMA connector, so the user cannot connect an improper antenna: antenna and antenna maximum gain are described in the specific test report of model V2P53.

The system doesn't use an external antenna power amplifier.

(v) The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see Section 15.31(i)).

[Power-One Italy]

The modular transmitter assembled on model V2P53 has been tested in the host equipment (solar grid tied inverter) where model V2P53 will be finally assembled.

(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

(A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.” Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.

(B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains FCC certified transmitter module(s).” Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.

[Power-One Italy]

Regulatory label including FCC identification number of model V2P53 (which assembles the modular transmitter) is applied on the manufactured units.

(vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization. 86

[Power-One Italy]

Instructions for maintaining compliance with specific rules and/or operating requirements has been clearly stated in the User Manual.

(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

[Power-One Italy]

Please refer to the specific test report.

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