

Test Report

EN 50155: 2007+AC: 2010+AC: 2012 (EMC, Characteristic, Environmental...Test)

Product : **RSDW08F/G & RDDW08F/G Series
DC-DC CONVERTERS**

Trade Name : MEAN WELL

Model Number : RSDW08F-03; RSDW08F-05; RSDW08F-12;
RSDW08F-15; RDDW08F-05; RDDW08F-12;
RDDW08F-15; RSDW08G-03; RSDW08G-05;
RSDW08G-12; RSDW08G-15; RDDW08G-05;
RDDW08G-12; RDDW08G-15

Prepared for

MEAN WELL Enterprises Co., Ltd.

No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan

Prepared by

Interocean EMC Technology Corp.

Interocean EMC Technology Tin-Fu Laboratory

No. 5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City,
Taiwan 244, R.O.C.

TEL.: +886 2 2600 6861

FAX.: +886 2 2600 6859

Remark:

The test report consists of **68** pages in total. It shall not be reproduced except in full, without the written approval of IETC. This document may be altered or revised by IETC only, and shall be noted in the revision section of the document.

The test result in this report is only subjected to the test sample.

Table of Contents

1	General Information	4
1.1	Description of Equipment Under Test	4
1.2	Specifications Description	5
1.3	Details of Tested Supporting System	6
1.4	Test Facility	7
1.5	Measurement Uncertainty	8
1.6	Summary of Test Results (EN 50155)	9
1.7	Summary of Test Results (EN 50121-3-2: 2015)	10
1.8	Measured Mode	11
1.9	Configuration of EUT Setup	11
1.10	Test Step of EUT	11
2	Test Item	12
2.1	Visual Inspection	12
2.2	Performance Test	13
2.3	Cooling Test	15
2.4	Dry Heat Test	17
2.5	Damp Heat Test	19
2.6	Supply Overvoltage	22
2.7	Surges Test	23
2.8	Electrostatic Discharge Test	24
2.9	Transient Burst Susceptibility Test	25
2.10	Radio- Frequency, Electromagnetic Field Immunity Test	26
2.11	Radio- Frequency, Conducted Disturbances Immunity Test	28
2.12	Power Line Conducted Emission (Battery Power Supply (Input))	29
2.13	Power Line Conducted Emission (Battery Power Supply (Output))	35
2.14	Radiated Emission	40
2.15	Insulation Test	46
2.16	Random and Increased Random Vibration Test	48
2.17	Shock Test	58
2.18	Low Temperature Storage Test	63
3	Photographs of EUT	65
3.1	Model No.: RDDW08F-15	65
3.2	Model No.: RSDW08G-15	67

Statement of Compliance

Applicant: MEAN WELL Enterprises Co., Ltd.
Manufacturer: Cincon Electronics Co., Ltd.
Product: RSDW08F/G & RDDW08F/G Series
DC-DC CONVERTERS
Model No.: RSDW08F-03; RSDW08F-05; RSDW08F-12;
RSDW08F-15; RDDW08F-05; RDDW08F-12;
RDDW08F-15; RSDW08G-03; RSDW08G-05;
RSDW08G-12; RSDW08G-15; RDDW08G-05;
RDDW08G-12; RDDW08G-15
Tested Power Voltage: DC 24 V; DC 36; V DC 48 V
Date of Final Test: Aug. 05, 2017
Revision of Report: Rev. 01

Measurement Procedures and Standards Used :

- ☒ EN 50155: 2007+AC: 2010+AC: 2012 for EMC, Environmental and Characteristic
 - ☒ EN 50121-3-2: 2006+AC: 2008 for EMC
 - ☒ EN 60068-2-1: 2007 for Environmental
 - ☒ EN 60068-2-2: 2007 for Environmental
 - ☒ EN 60068-2-30: 2005 for Environmental
 - ☒ EN 61373: 1999 for Environmental

According to special request by client:

- ☒ EN 50121-3-2: 2015 for EMC

The device described above was performed by Interocean EMC Technology Corporation to determine the EMC & Environmental & Characteristic compliance with the requirement of above standards. The results contained in this report are subjected to the tested sample only.

Report Issued : 2018/03/02

Project Engineer : Ceres Cheng
Ceres Cheng

Approved: Roy Chiang
Roy Chiang