CREI Ven S.c.a.r.l.
CENTRO RICERCA
ELETTRONICA INDUSTRIALE
VENETO

TECHNICAL REPORT

Document N°.: 181639BT	**Issuing date of document:** 2018-06-15
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OBJECT	Analysis for extension of test results
CUSTOMER	Regalgrid Europe S.r.l.
PRODUCT DESCRIPTION	Smart controller for inverter
REFERENCE PRODUCT	SNOCU
DERIVED PRODUCT	SNOCU DIN
REFERENCE STANDARD	See par 6.1

SUMMARY

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1 IDENTIFICATION

1.1 Laboratory

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1.2 Customer

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2 PRODUCT SPECIFICATIONS

2.1 Reference Product specifications

Referece product n°1

EUT Description:	Smart controller for inverter
Model:	SNOCU
Manufacturer:	Regalgrid Europe S.r.l.
Ratings :	5 Vdc 2,5A
Power supply ratings:	In: 100-240V 50/60Hz 0,5A, out: 5,1V 2,5A

2.2 Derived Product specifications

Derived product n°1

EUT Description:	Smart controller for inverter
Model:	SNOCU DIN
Manufacturer:	Regalgrid Europe S.r.l.
Ratings :	5 Vdc 2,5A
Power supply ratings:	In: 100-240V 50/60Hz 0,88A, out: 5V 2,4A

3 OBJECTIVE OF THE WORK

The objective of the present technical report is to evaluate the conformity of the models specifed in the par 2.2 to the essential requirements stated by the :

- Reference standard defined in par. 6.1

based on the evaluation of the reference model described in par 2.1

- SNOCU

and the manufacturer technical documentation (including test results).

4 LIST OF EVALUATED DOCUMENTS

For the evaluation concerning this technical report, the followings documents received by the manufacturer have been evaluated:

CREI Ven document reference	Reviewed technical documentation
181638BT	EMC/LVD Test Report for Reference Product – SNOCU

5 LIST OF TECHNICAL DIFFERENCE

All devices are Smart controller for inverter
Both models share the same internal components mounted in different positions depending on the mechanical specifications of the device and depending on configurations of products.
SNOCU and SNOCU DIN use a different power supply, both approved according IEC/EN 60950-1

6 LIST OF PERFOMED TEST

6.1 REFERENCE STANDARDS

DOCUMENT	DATE	OBJECT
IEC 60950-1	2005	Information technology equipment - Safety - Part 1: General requirements
IEC 60950-1/A1	2009	
IEC 60950-1/A2	2013	
EN 60950-1	2006	
EN 60950-1/A1	2010	
EN 60950-1/A11	2009	
EN 60950-1/A12	2011	
EN 60950-1/A2	2013	

6.2 PERFOMED TEST ON REFERENCE PRODUCT

See report 181638BT

6.3 PERFOMED TEST ON DERIVED PRODUCT

4.5	TABLE: Thermal requirements						P
	Supply voltage (V)	90	264				—
	Ambient T_{min} (°C)	25	25				—
	Ambient T_{max} (°C)	25	25				—
Maximum measured temperature T of part/at.....:		T (°C)					Allowed T_{max} (°C)
PCB		43					130
Left enclosure		32					95
Power Supply enclosure		30					95
Power Supply trafo		41					105
Power Supply capacitor		36					105
Supplementary information:							

5.1	TABLE: touch current measurement		P
SNOCU DIN			
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions
SELV to HV	0,061	0.25	
supplementary information:			

7 COMMENTS ON DESING SOLUTIONS AND CONSTRUCTIONS

None

8 ANALYSIS OF PERFORMED TEST

Taking into consideration the tests performed on the reference product and analysing the specifications and construction details of the devices, CREI Ven laboratory determined that thermal test and leakage current test have to be performed on the derived product

9 CONCLUSIONS AND RESULTS

CREI Ven analysed the following information concerning the reference and derived products:

- technical differences (par. 5)
- Tests (par. 6)

CREI Ven approves the extension of compliance for the following model:

SNOCU DIN