

Communication concerning the approval granted of an electrical/electronical sub-assembly with regard to Regulation No.10.



Approval No: *E24 10R-020234* Extension No: *03*.

Reason for extension:

-Addition of variant I to variant C with changed firmware (power output rating 38W) and a

different number of cells of the fuel cell stack.

-Addition of variant J to variant E with larger tank connection and a different number of

cells of the fuel cell stack.

-Use of a modified PCBA (C17 RevD index 3 instead of C17 RevD), changed firmware and

a different number of cells of the fuel cell stack in variants A,B,D,E,G,H,J.

-Use of a modified PCBA (C17 RevD index 4 instead of C15 RevB), changed firmware and

a different number of cells of the fuel cell stack in variants C,F,I.

1.	Make (trade name of manufacturer):			SFC SmartFuelCell
2.	Type and general commercial description:			EFOY 1600.
	Variant(s):	A: B: C: D:	EFOY 1600. EFOY 1200. EFOY 600. EFOY 1600 XL.	E: EFOY 1600 24V. F: MFC 60. G: MFC 110. H: MFC 140. I: EFOY 900
3.	Means of identification of type, if marked on the component:			J: EFOY 1600 24V XL See 2. above.
3.1	Location of that marking:			On the housing of the unit.
4.	Category of vehicle:			See Appendix.
5.	Name and address of manufacturer:			SFC Smart Fuel Cell AG., Eugen-Sänger-Ring 4-6, D-85649 Brunnthal-Nord, Germany.
6.	In the case of components and separate technical units, location and method of affixing of the ECE approval mark:			On the housing of the unit.

In the case of components and separate technical units, location and method of affixing of the ECE approval mark:

On the housing of the unit.

Incorporated into a label.

7. Address(es) of assembly plant(s):

SFC Smart Fuel Cell AG., Eugen-Sänger-Ring 4-6, D-85649 Brunnthal-Nord, Germany.

> 49.49U.266.1.1 Page 1 of 3

- 8. Additional information (where applicable):
- 9. Technical service responsible for carrying out the tests: TÜV SÜD AUTOMOTIVE GMBH.
- 10. Date of test report: As before and 09.08.2007.
- 11. Number of test report: 377-0004-06-TAES up to Ext.03
- 12. Remarks (if any): See Appendix.
- 13. Place: Dublin.
- 14. Date: 10th August, 2007.
- 15. Signature: Will Will



See appendix.

- 16. The index to the information package lodged with the approval authority, which may be obtained on request is attached.
- 16.1 Documentation: 20 Pages.

Approval No: E24 10R-020234 Extension No: 03.

Appendix to type-approval communication concerning the type approval of an electrical/electronical sub-assembly under Regulation No.10.

l.	Addi	tional information	
1.1.	Elect	rical system rated voltage:	12 / 24 volts nominal.
1.2.		ESA can be used on any vehicle type with the wing restrictions:	All vehicles with a 12 / 24 volt nominal electrical system and battery negative on the body.
1.2.1	Insta	llation conditions, if any:	See manufacturer's specifications.
1.3.	This	ESA can only be used on the following vehicle types:	N/A.
1.3.1	Insta	llation conditions, if any:	N/A.
1.4.		specific test method(s) used and the frequency ranges red to determine immunity were:	Current Injection (20MHz - 80MHz). Free Field (80MHz – 1000MHz).
1.5.	Approved/accredited laboratory responsible for carrying out the tests: TÜV AUTOMO		TÜV AUTOMOTIVE GMBH.
2.	Rem	arks:	N/A.
		Appendix to type-approval communication concern type approval of a vehicle under Regulation No.	
	1.	Additional information	
	2.	Special devices for the purpose of Annex 4 to this Regulation:	N/A.
	3.	Electrical system rated voltage:	N/A.
	4.	Type of bodywork:	N/A.
	5.	List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document:	N/A.
	6.	Approved/accredited laboratory (for the purpose of this Regulation) responsible for carrying out the tests:	N/A.
	7.	Remarks:	N/A.