



DEIF A/S

Certificate of Conformity

**Type.....: Ultra Capacitor Charger and Ultra Capacitor Module
UCC-4 and UCM-90**

Serial no.....:

Customers order No...:

This certificate declares that the product above is in conformity with the data at the attached Type Certificate 4124030074A.

DEIF A/S

Date:



-power in control

DEIF A/S

Type Certificate

4124030074A / ref. JCL

Type:	Ultra Capacitor Charger UCC-4 and Ultra Capacitor Module UCM-90
-------	---

Technical specifications

* Input Voltage:	UCC-4: 400vac \pm 15% UCM-90: 0-93Vdc (From UCC-4)
* Rated Input Current:	UCC-4: 1,7Aac
* Frequency range:	UCC-4: 45...65Hz
Max Power consumption	UCC-4: 185W
* Output voltage	UCC-4: 90...450Vdc (1...5 UCM-90)
* Output current	UCC-4: Nominal current 3,5A UCM-90: 0-35A dc
Altitude	< 2000 meters
Weight	UCC-4: 7kg UCM-90: 9,3kg

Type test specifications

	For both UCC-4 and UCM-90	Tested according to:
Temperature:	-30...60°C (operating, free convection)	IEC 60068-2-1 & IEC 60068-2-2
Climate:	95% RH	IEC 60068-2-30, test Db
Vibration:	3...13.2Hz: 2mm _{pp} 13.2...100Hz: 0.7g	IEC 60068-2-6 & DNV Class A
	3...13.2Hz: 6mm _{pp} 13.2...100Hz: 2.1g	IEC 60068-2-6 & DNV Class C
Shock:	Base mounted 50g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC 60068-2-27, test Ea
Bump:	20g, 16msec. half sine Tested with 1000 impacts in each direction in all 3 axes.	IEC 60068-2-27
Safety:		EN 60950-1
EMC:		EN 61000-6-2/4 EN 55011
Protection:	Unit: IP20	IEC/EN 60529

*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling

3rd May 2013

DEIF A/S

Keld Roed

Type Approval Manager

DEIF A/S
Frisenborgvej 33, DK-7800 Skive, Denmark

Tel: (+45) 96149614 * Fax: (+45) 96149615
Further information: URL: <http://www.deif.com>