



-power in control

DEIF A/S

Type Certificate

4124010061A

Type:	PBC-2 – Pitch Battery Charger
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<i>Technical specifications</i>	
* Input voltage / current	185-264V AC / 4.4A (Max. load)
* Turn on	≥95% Umin
Max. Permissible stress	Up to 105% Umax without destruction
Frequency range	40-70 Hz
Power factor AC input	0.65-0.75 capacitive
Crest factor AC input	2.0-2.5
Switch-on time	Typically 2 s
Hold-up time	Typically 15 ms
* Output voltage	330V DC (349-312V DC) temperature-controlled (-25°C to 65°C)
* Output current	1.8A DC. Electronical short circuit protection
Line regulation	0.6% measured directly at the connection terminal
* Load regulation	1.0% measured directly at the connection terminal
Current derating	No derating
* Ripple	<1% p-p without battery
Response time	Typically 2 ms
Load transient 10-100-10%	Typically 6% (±20V)
On/off overshoot	None
* Overvoltage protection	Electronical >370V DC, no effect on external overvoltage
Decoupling diode	Internal series diode at +output
Efficiency at full load	>90%
* Analogue inputs:	Battery check input 12-30V DC, max. 10mA (24V DC) SELV Temperature compensation input PT100: -25...65°C (Not galvanically separated from output)
* Relay output	Potential free relay contacts (1 NO/1 NC), contact load max. 110V DC/60W
* Galvanic separation:	Input(X1) to Case/Alarm/Output: 2200VDC 60sec Input(X1) to Batt Check/PT100: 4300VDC 60sec. Alarm(X2) to Batt Check/PT100/Output/Case: 1500VDC 60sec. Batt. Check(X3) to Case/PT100: 700VDC 60sec. Batt Check(X3) to Output: 4300VDC 60sec. Output/PT100(X4/X5) to Case: 2100VDC 60sec.

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



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Type test specifications		Tested according to:
Temperature:	-25....65°C (operating) -40....85°C (storage)	IEC 60068-2-1 IEC 60068-2-2
Climate:	97% 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...50Hz: 2.1g	IEC 60068-2-6 & DNV Class C
Shock:	50g, 11msec. half sine	IEC 60068-2-27, test Ea
	Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	
Bump	25g, 16msec. half sine	IEC 60068-2-27, test Ea
	Tested with 1000 impacts in each direction in all 3 axes.	
Safety:	Installation Cat.III 600V Pollution degree 2	EN 60950-1
EMC:	Immunity for Industrial environments	IEC/EN 61000-6-2
	Emission for Industrial environments	IEC/EN 61000-6-4
	Surge: Class 3 – Line to line: 1kV Line to ground: 2kV	IEC/EN 61000-4-5
	Bursts: Level 3 – 2kV	IEC/EN 61000-4-4
Protection:	IP20	IEC/EN 60529

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Keld Roed
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