



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **8637909 HH**

Company **E-T-A Elektrotechnische Apparate GmbH**
Industriestr. 2 - 8
90518 Altdorf, GERMANY

Product Description **PowerPlex**

Type **Power Module PP-M-DC024**
Panel Module PP-M-PM024

Environmental Category **C, H, EMC1**

Technical Data /
Range of Application **PowerPlex is a CAN based system for connecting and controlling electrical loads and for monitoring and transmitting sensor data and commands.**

Operating voltage: **12/24V DC**
Degree of protection: **IP22**
Operating temperature range: **-40°C to 85°C**

Firmware: **V 8.30**
Konfigurationssoftware: **V 3.120**
Hardware-Stand: **Rev. 3E**
Software Questionnaire Requirement Class 3 (08.12.2009)

Environmental Category "H": **Test "Cold" with -40°C/2h**
Test "Dry heat" with +85°C/2h

Test Standard **Guidelines for the Performance of Type Approvals, Chapter 2, Edition 2003**

Documents **Test reports: E-T-A PP-M-Protokoll_GL-Baumusterprüfung (05.11.2009),**
ECL-EMC Test Report no. 09-125 (05.11.2009);
Data sheets: D_PP_Power_e_041109 and D_PP_Panel_e_041109;
Documents acc. to submitted files (Dokumentenübersicht version 29.10.2009)

Remarks **None**

Valid until **2014-12-10**

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Type Approval Symbol



File No. **I.B.08**

Hamburg, 2009-12-11

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This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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Further Technical Data / Range of Application

Power Module PP-M-DC024

Current consumption (stand by): **typ. 40mA**
Max. total current: **102A**
Number of analogue inputs: **4**
Number of digital inputs: **8**
Number of 8A High side switch output: **6 (Short circuit protected, adjustable from 1A to 8A in 1A steps, dimmable)**
Number of 25A High side switch output: **2 (Short circuit protected, adjustable from 4A to 25A in 2A steps, dimmable)**
Number of 1A High side switch output: **4 (Short circuit protected)**
Number of Status outputs for LED: **8**

Panel Module PP-M-PM024

Current consumption (stand by): **typ. 40mA**
Max. total current: **20A**
Number of analogue inputs: **4**
Number of digital inputs: **32**
Number of 8A High side switch output: **2 (Short circuit protected, adjustable from 1A to 8A in 1A steps, dimmable)**
Number of 1A High side switch output: **4 (Short circuit protected)**
Number of Status outputs for LED: **32**

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