

Product features of OSRAM ECGs in combination with central battery systems

Manufacturer: OSRAM GmbH 81536 München	Type / Description: ECG product family: QUICKTRONIC PROFESSIONAL QTP-DL	
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Criteria:	CEAG-Data	Description	Fulfilled
Operating voltage range DC:	186 V - 275 V at -10 °C	Battery voltage range in operation with emergency current	YES
<u>Switching time:</u> from AC to DC from DC to AC	Switching time of device: 180 ms - 450 ms 180 ms - 450 ms	Typical switching time of CEAG devices	YES
In accordance with standard ¹⁾ :	DIN EN 60929	Electronic ballasts for fluorescent tube lamps, operating on alternating current	YES
In accordance with standard ¹⁾ :	DIN EN 61347-2-3 (incl. annex J)	Specific requirements for electronic ballasts for fluorescent lamps operated on alternating current	YES ²⁾
In accordance with standard ¹⁾ :	DIN EN 61000-3-2	EMC standard for electromagnetic compatibility (harmonic content)	YES
In accordance with standard ¹⁾ :	DIN EN 61547	EMC standard for electromagnetic interference, especially for emergency lighting (immunity)	YES
In accordance with standard ¹⁾ :	DIN EN 55015 (Measurement on AC and DC)	EMC standard for critical values and measuring methods for radio shielding of electrical illumination appliances (interference)	YES

¹⁾ Designation after VDE 0108 is insignificant due to it not being an ECG standard

²⁾ Tests not yet completed for annex J

Features:	CEAG-Data:	Explanation:	Manufacturer's statement:
No-load current of ECG in DC-operation (without or with a faulty illuminant)	Nominal value of operation: 2L-CG-S: <10 mA / <28 mA 2L-CG (4-120 W): <10 mA 2L-CG (7-120 W): <25 mA 2L-CG (11-120 W): <41 mA	Options for luminaire/EVG-monitoring units, CEAG-type: 2L-CG, according to catalog	< 10 mA
Max. inrush current per ECG in AC-operation:	Maximum inrush current: SKU 4 x 1A (CG) => 60 A/ms per circuit SKU 2 x 3A (CG) => 120 A/ms per circuit SKU 1 x 6A (CG) => 180 A/ms SKU 2 x 3A CG-S => 250 A/ms per circuit SKU 1 x 6A CG-S => 250 A/ms	Refers to a max. allowable inrush current of ECG within an electric circuit to consider the maximum contact load of the electric circuits' change-overs.	see register "Overview"
Nominal current in AC-operation:	manufacturer-specific	For ascertainment of max. quantity of ECG per electric circuit	see register "Overview"
Nominal current in DC-operation:	manufacturer-specific	dito	see register "Overview"
Luminous flux in DC-operation 186 V in relation to 230 V	manufacturer-specific	ECG for emergency lighting on battery operation - for planning	> 75 %

The OSRAM ECGs mentioned above fulfill the requirements from the DIN-EN standards on this page. Explicit approval was carried out on those standards mentioned in the identification.

OSRAM as a manufacturer of electronic control gear is not liable for the faultless function of other components for emergency lighting.

Luminaires for the operation as safety lighting must comply with norm DIN EN 60598-2-22.

CEAG requirements overview

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ECG type	Switching time	Max. inrush current per ECG in AC operation	Nominal current in AC-operation:	Nominal current in DC-operation:
QTP-DL 1x18-24	automatic restart independent of the duration of the power failure, ignition 1 s after supplied with input voltage	$I_p = 13 \text{ A}$; $T_H = 320 \mu\text{s}$	DL/DF 18 W: 0.085 A DL/DF 24 W 0.115 A	DL/DF 18 W: 0.085 A DL/DF 24 W 0.115 A
QTP-DL 1x36-40	automatic restart independent of the duration of the power failure, ignition 1 s after supplied with input voltage	$I_p = 13 \text{ A}$; $T_H = 320 \mu\text{s}$	DL/DF 36 W: 0.17 A DL/DF 40 W 0.21 A	DL/DF 36 W: 0.17 A DL/DF 40 W 0.21 A
QTP-DL 1x55 GII	acc. to CEAG requirements	$I_p = 24 \text{ A}$; $T_H = 230 \mu\text{s}$	DL 55 W: 0.26 A	DL 55 W: 0.26 A
QTP-DL 2x18-24	automatic restart independent of the duration of the power failure, ignition 1 s after supplied with input voltage	$I_p = 13 \text{ A}$; $T_H = 320 \mu\text{s}$	DL/DF 18 W: 0.16 A DL/DF 24 W 0.22 A	DL/DF 18 W: 0.16 A DL/DF 24 W 0.22 A
QTP-DL 2x36-40	automatic restart independent of the duration of the power failure, ignition 1 s after supplied with input voltage	$I_p = 23 \text{ A}$; $T_H = 250 \mu\text{s}$	DL/DF 36 W: 0.33 A DL/DF 40 W 0.41 A	DL/DF 36 W: 0.33 A DL/DF 40 W 0.41 A
QTP-DL 2x55 GII	acc. to CEAG requirements	$I_p = 28 \text{ A}$; $T_H = 230 \mu\text{s}$	DL 55 W: 0.51 A	DL 55 W: 0.51 A