

# CERTIFICATE

Issued to:

Applicant:

**OSRAM GmbH**  
Marcel-Breuer-Strasse 6  
0 ¼ QFKHQ \*HUPDQ\

Licensee:

**OSRAM GmbH**  
Marcel-Breuer-Strasse 6  
0 ¼ QFKHQ \*HUPDQ\

Product : Built-in LED drivers  
Trade name(s) : OSRAM  
Type(s)/model(s) : EM FIT 18/220-240/350 CS L, EM FIT 18/220-240/350 D CS L,  
EM FIT 40/220-240/350 D CS L, EM FIT 40/220-240/800 CS L,  
EM FIT 60/220-240/1200 CS L, EM FIT 60/220-240/350 D CS L,  
EM FIT 75/220-240/1600 CS L and EM FIT 75/220-240/550 D CS L

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard(s) EN 61347-1:2015, EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2196588

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 17 September 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-120653

DEKRA Certification B.V.

R

B.T.M. Holtus  
Managing Director

p

R Zhou  
Certification Manager

k , QWHJUDO SXEOLFDWLRQ RI WKLV FHUWLILFDWH LV DOORZHG

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product : Built-in LED drivers  
Trade name(s) : OSRAM  
Type(s)/model(s) : EM FIT 18/220-240/350 CS L, EM FIT 18/220-240/350 D CS L,  
EM FIT 40/220-240/350 D CS L, EM FIT 40/220-240/800 CS L,  
EM FIT 60/220-240/1200 CS L,  
EM FIT 60/220-240/350 D CS L, EM FIT 75/220-240/1600 CS L  
and EM FIT 75/220-240/550 D CS L  
Rated input voltage : 220-240 V~  
Rated frequency : 50/60 Hz  
Class of insulation : Class I

**Product data | type EM FIT 18/220-240/350 D CS L, EM FIT 40/220-240/350 D CS L,  
EM FIT 60/220-240/350 D CS L and EM FIT 75/220-240/550 D CS L**

Additional information : Auto- Z R X Q G F R Q W U R O J H D U r & W K H U I  
current type  
Uout : 250 Vdc

**Product data | type EM FIT 18/220-240/350 CS L, EM FIT 40/220-240/800 CS L,  
EM FIT 60/220-240/1200 CS L and EM FIT 75/220-240/1600 CS L**

Additional information : SELV, Safety isolating non- L Q K H U H Q W O \ V K R U W F  
thermal protection, constant current type  
Uout : 60 Vdc

**TESTS****Test requirements**

EN 61347-1:2015  
EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 62384:2006  
EN 62384:2006/A1:2009

**Test result**

The test results are laid down in DEKRA test file 437277300, 437946600.

**Additional information**

This certificate replaces certificate No. 35-120036 which we hereby declare invalid.

The list of components is laid down in test report 4372773A.50, 4372773.52.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

Mass Power Electronics Inc.  
No.365, South Dongkeng Road, Dongkeng Town  
523443 Dongguan Guangdong, China

**Model list:**

Model	PIN1	PIN2	I <sub>rated</sub> (mA)	P <sub>rated</sub> (W)	U <sub>rated</sub> (Vdc)	U <sub>n</sub> /f <sub>n</sub>	In (A)	ta (°C)	tc (°C)	λ
EM FIT 18/220-240/350 D CS L	OFF	OFF	200	10,8	25-54	220-240 V, 50/60 Hz	0,085	50	60	0,6C-0,89C
	OFF	ON	250	13,5			0,100			0,7C-0,92C
	ON	OFF	300	16,2			0,110			0,8C-0,94C
	ON	ON	350	18,9			0,130			0,8C-0,95
EM FIT 40/220-240/350 D CS L	OFF	OFF	200	24,0	40-120	220-240 V, 50/60 Hz	0,150	60	75	0,6C-0,92C
	OFF	ON	250	30,0			0,190			0,7C-0,93C
	ON	OFF	300	36,0			0,220			0,8C-0,94C
	ON	ON	350	42,0			0,250			0,9C-0,95
EM FIT 60/220-240/350 D CS L	OFF	OFF	200	35,0	90-175	220-240 V, 50/60 Hz	0,240	50	75	0,91C-0,95
	OFF	ON	250	43,8			0,290			0,92C-0,95
	ON	OFF	300	52,5			0,340			0,94C-0,95
	ON	ON	350	61,3			0,390			0,95-0,96
EM FIT 75/220-240/550 D CS L	OFF	OFF	350	75,6	90-216	220-240 V, 50/60 Hz	0,470	50	75	0,94C-0,96
	OFF	ON	400	74,8	90-187		0,470			0,95-0,96
	ON	OFF	500	75,0	90-150		0,470			0,95-0,96
	ON	ON	550	74,8	90-136		0,470			0,95-0,96
EM FIT 18/220-240/350 CS L	OFF	OFF	200	10,2	27-51	220-240 V, 50/60 Hz	0,082	50	65	0,7C-0,9C
	OFF	ON	250	12,8			0,095			0,9C-0,95
	ON	OFF	300	15,3			0,110			0,9C-0,95
	ON	ON	350	17,9			0,125			0,9C-0,95
EM FIT 40/220-240/800 CS L	OFF	OFF	500	25,5	27-51	220-240 V, 50/60 Hz	0,175	50	75	0,6C-0,92C
	OFF	ON	600	30,6			0,200			0,7C-0,93C
	ON	OFF	700	35,7			0,240			0,8C-0,94C
	ON	ON	800	40,8			0,280			0,9C-0,95
EM FIT 60/220-240/1200 CS L	OFF	OFF	900	45,9	27-51	220-240 V, 50/60 Hz	0,270	50	75	0,9C-0,95
	OFF	ON	1050	53,6			0,330			0,9C-0,95
	ON	OFF	1100	56,1			0,340			0,9C-0,95
	ON	ON	1200	61,2			0,370			0,9C-0,95
EM FIT 75/220-240/1600 CS L	OFF	OFF	1300	66,3	27-51	220-240 V, 50/60 Hz	0,390	50	75	0,9C-0,95
	OFF	ON	1400	71,4			0,420			0,9C-0,95
	ON	OFF	1500	76,5			0,450			0,9C-0,95
	ON	ON	1600	81,6			0,480			0,9C-0,95