

## EM FIT 18/220-240/350 D CS L G2 (NEW)

Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- Type of protection: IP20
- Wide output voltage range
- Fixed output (no dimming)

### Product family benefits

- Small, slim white metal housing (W)30 x (H)21 mm
- Flexible current setting (DIPswitch – 4 currents)
- High efficiency and reliability
- Enhanced safety due to overload, overtemperature, short-circuit protection
- High light quality due to low ripple current
- Long lasting and high reliability

### Areas of application

- Linear and area lighting
- Shop lighting
- Offices, Public buildings, Supermarkets
- Industry lighting
- Suitable for luminaires of protection class I and II

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Total harmonic distortion	< 20 % <sup>1)</sup>
Power factor $\lambda$	0.60C...0.96 <sup>2)</sup>
Efficiency in full-load	87 % <sup>3)</sup>
Device power loss	3.4 W <sup>4)</sup>
Networked standby power	not relevant
Inrush current	35 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	31
Max. ECG no. on circuit breaker 16 A (B)	50
Max. ECG no. on circuit breaker 25 A (B)	79
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV <sup>6)</sup>
Protective conductor current	0.5 mA
Nominal output voltage	25...54 V <sup>7)</sup>
U-OUT (working voltage)	250 V
Nominal output current	200 mA / 250 mA / 300 mA / 350 mA <sup>8)</sup>
Output current tolerance	±7.5 %
Output ripple current (100 Hz)	< 10 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	5...18.9 W
Maximum output power	18.9 W

1) At full load

2) Full load at 220...240 V<sub>AC</sub>/50 Hz

3) at 230 V, 50 Hz

4) At 230 V

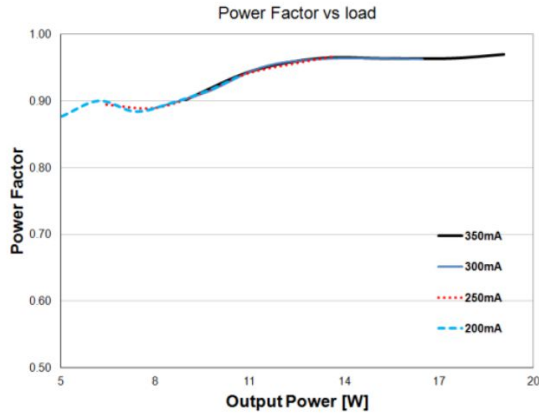
5)  $t_{width} = 75 \mu s$  typical (measured at 50 %  $I_{peak}$ )

6) L/N – PE acc to EN 61547 Cluase 5.7

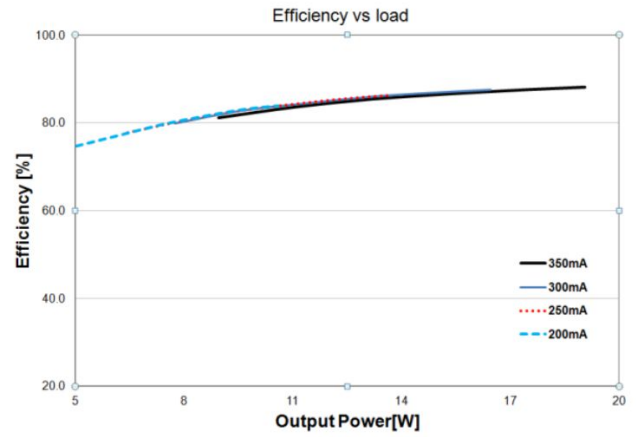
7) At 200/250 mA output current / At 300/350 mA output current

8) ±7.5%

## Typical Power Factor v Load



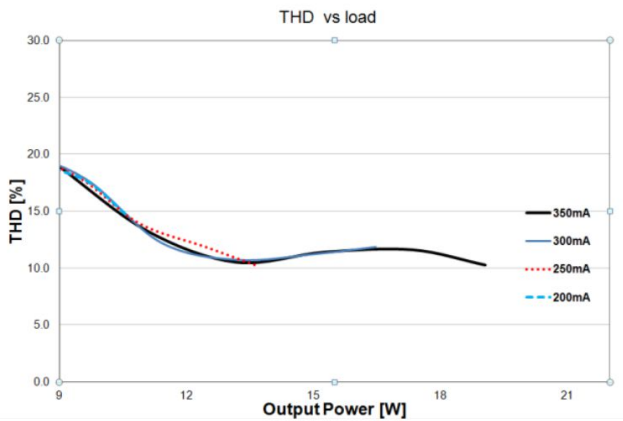
## Operating Window



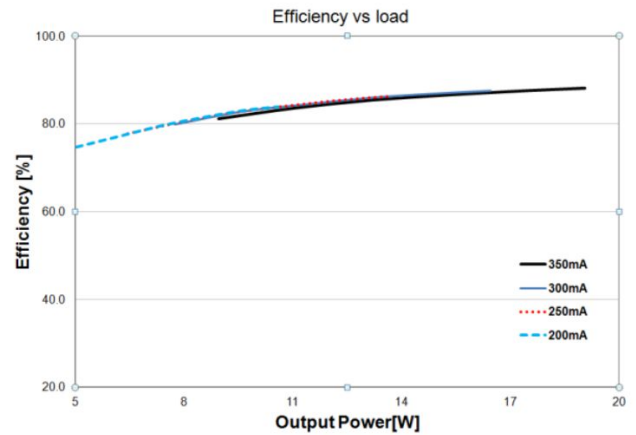
Typical Power factor vs load of EM FIT 18W 350 D CS L G2

Typical Operating window of EM FIT 18W 350 D CS L G2

## Typical THD v Load



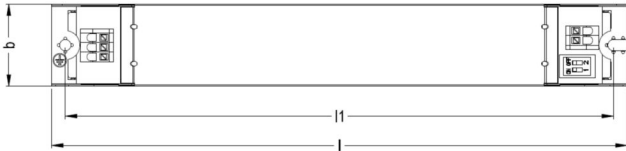
## Typical Efficiency v Load 230 V 50 Hz



Typical THD vs load of EM FIT 18W 350 D CS L G2

Typical Efficiency vs load of EM FIT 18W 350 D CS L G2

## Dimensions & weight



<b>Product weight</b>	105.00 g
<b>Length</b>	210.0 mm
<b>Width</b>	30.0 mm
<b>Height</b>	21.0 mm
<b>Mounting hole spacing, length</b>	200.0 mm
<b>Mounting hole spacing, width</b>	not relevant mm
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm

1) Solid or flexible leads

## Colors & materials

<b>Casing material</b>	Metal
<b>Product color</b>	White

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-25...+60 °C
<b>Maximum temperature at tc test point</b>	75 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-40...+85 °C
<b>Permitted rel. humidity during operation</b>	5...90 % <sup>1)</sup>

1) Non-condensing

## Lifespan

<b>ECG lifetime</b>	50000 h / 100000 h <sup>1)</sup>
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1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
<b>Predecessor EAN</b>	4062172219891

## Capabilities

<b>Programming interface</b>	Dipswitch
<b>Dimmable</b>	No
<b>Constant lumen function</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I
<b>Type of connection, input side</b>	Terminal
<b>Type of connection, output side</b>	Terminal
<b>Number of channels</b>	1
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes

1) Output wires must be routed as close as possible to each other

## Programming

Programming device	DIPswitch
Tuner4TRONIC	No
Tuner4TRONIC Field App	No
Box programming	No

## Certificates & standards

Approval marks – approval	CE / ENEC / CCC / RCM / TISI / BIS
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547 / CISPR 15/EN 55015 / Acc. to EN 61000-3-3
Type of protection	IP20

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	18-10-2024
Primary Article Identifier	6977078992510
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

### Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.



### Additional product information

- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.

## Download Data

File		
Certificates	PDF	▶ EM FIT CS L G2 CB DE1 68840B1 080724
Certificates	PDF	▶ EM FIT D CS L G2 CCC 2024171002005362 020824
Certificates	PDF	▶ EM FIT CS L G2 ENEC 40058248 080724
CAD data 3-dim	Compressed	▶ EM FIT D L G2 CAD3PDF 181024
CAD data	Compressed	▶ EM FIT D L G2 IGS 181024
CAD data	Compressed	▶ EM FIT D L G2 STEP 181024
Mandatory Publications	PDF	▶ EM FIT D CS L G2 CE 4534782 00 160724
User instruction	PDF	▶ UI EM FIT D CS L G2

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977078992510	EM FIT 18/220-240/350 D CS L G2	Shipping carton box 20 Pieces	230 x 156 x 96 mm	3.44 dm <sup>3</sup>	110.47 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.