

EM FIT 18/220-240/350 D CS L G3 (NEW)

Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime 50 000 h at tc max
- Type of protection: IP20
- Fixed output (no dimming)
- Low THD <10% @ full load
- Halogen free polycarbonate plastic housing
- Input Surge Protection: DM 1kV, CM 2kV

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
- Linear lighting for office, school and public areas
- Suitable for luminaires of protection class I
- Industry
- Emergency lighting
- Build-in Use

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	220...240 V
Input voltage DC	176...276 V
Total harmonic distortion	10 % ¹⁾
Power factor λ	0.70C...0.95 ²⁾
Efficiency in full-load	88.5 % ³⁾
Networked standby power	not relevant
Inrush current	20.5 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	35
Max. ECG no. on circuit breaker 16 A (B)	56
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV ⁵⁾
Protective conductor current	0.5 mA
Nominal output voltage	24...54 V
U-OUT (working voltage)	250 V
Nominal output current	200 mA / 250 mA / 300 mA / 350 mA ⁶⁾
Default output current	200 mA
Output current tolerance	± 7.5 %
Output ripple current (100 Hz)	< 10 % ⁷⁾
Output PSTLM	≤ 1 ⁸⁾
Output SVM	≤ 0.4
Nominal output power	4.8...18.9 W ⁹⁾
Maximum output power	18.9 W
Galvanic isolation primary/secondary	Non isolated

1) At full load

2) Full load at 220...240 V_{AC}/50 Hz

3) Measured at 100% load and Steady-state temperature in 25°C ambient

4) $t_{width} = 118 \mu s$ typical (measured at 50 % I_{peak})

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

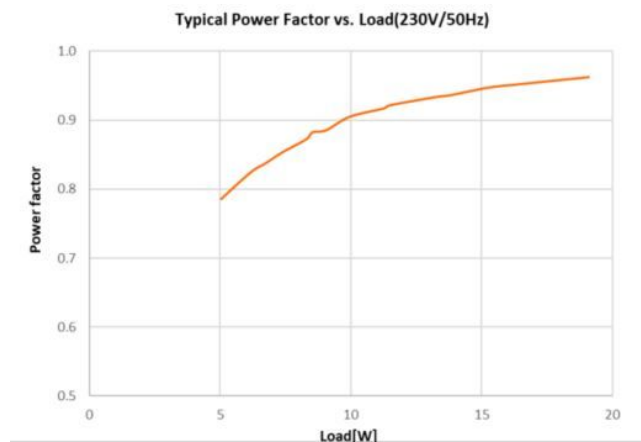
6) ± 7.5 %

7) At 100% load condition, $> 1k$ Hz (pk-pk)

8) Measured at 230Vac input, 100% load

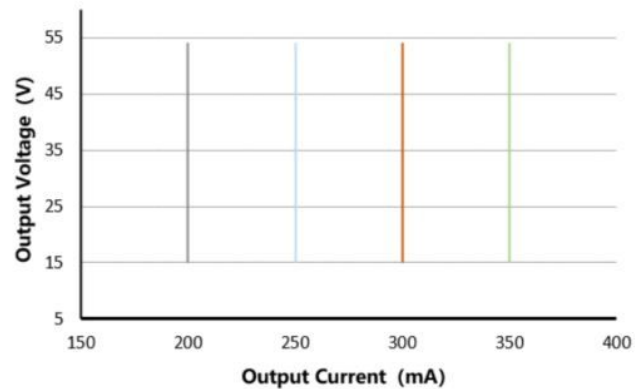
9) Partial load

Typical Power Factor v Load



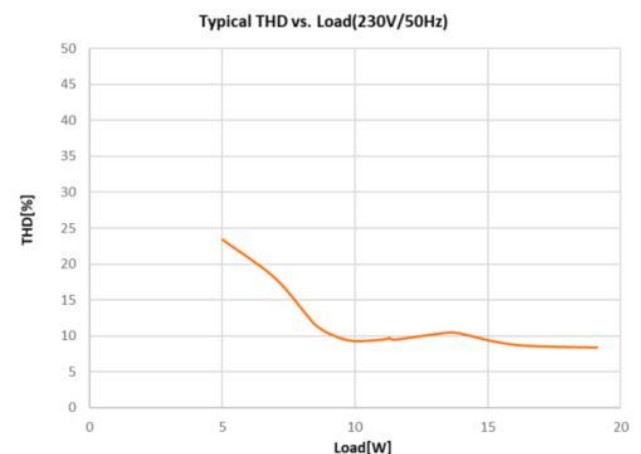
Typical Power factor vs load_EM FIT 18 D CS L G3

Operating Window



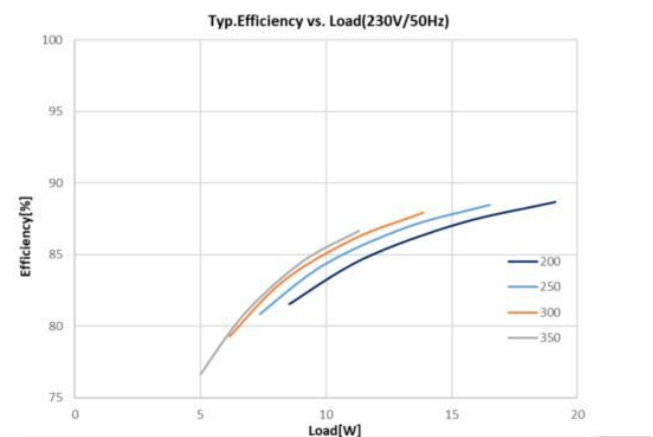
Operating window_EM FIT 18 DCS L G3

Typical THD v Load



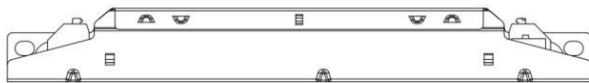
Typical THD vs load_EM FIT 18 D CS L G3

Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs load_EM FIT 18 D CS L G3

Dimensions & weight



Product weight	100.00 g
Length	168.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	158 mm
Mounting hole spacing, width	not relevant mm
Cable cross-section, input side	0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾
Cable cross-section, output side	0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm

1) Push-in at 45° angle / Solid and stranded

Colors & materials

Casing material	Metal
Product color	White

Temperatures & operating conditions

Ambient temperature range	-30...+60 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Permitted relative humidity at storage	5...85 %

1) Non-condensing

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) Measured at 230Vac input, 100% load. 10% failure rate / Measured at 230Vac input. 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Programming interface	Dipswitch
Dimmable	No
Constant lumen function	No
Max. cable length to lamp/LED module	2.0 m
Mains switching cycles	100.000
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
EL CEAG STAR compatible	Yes
EL DC detection selectable	Yes
EL EOFi – default value	1.0
Type of connection, input side	Terminal
Type of connection, output side	Terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

Programming

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

Certificates & standards

Approval marks – approval	CE / CCC / RCM / ENEC 10 / EL / VDE
Standards	IEC 61347-2-13 / IEC 62384 / IEC 61347-1 / IEC 61547 / IEC 61000-3-2/EN 61000-3-2 / IEC 55015
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	13-07-2026
Primary Article Identifier	6937186176400
Candidate List Substance 1	no declarable substance contained
CAS No. of substance 1	no declarable substance contained
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	▶ CCC_ELEMENT FIT G3_ZH
Certificates	PDF	▶ CCC_ELEMENT FIT G3_EN
Certificates	PDF	▶ CB_336887_70508
Certificates	PDF	▶ VDE_ENEC 40061455_300-ELEMENT FIT G3
CAD data 3-dim	Compressed	▶ EM FIT 18 220-240 350 D CS L G3
Product Datasheet	PDF	▶ EM FIT 18 220-240 350 D CS L G3
CAD data PDF	PDF	▶ EM FIT 18 40 220-240 G3
Mandatory Publications	PDF	▶ EU_9C1-4553967-EN-02_EM FIT xx D CS L G3(CCT)
User instruction	PDF	▶ UI-G15132011_EM_FIT_D_CS_L_G3_CCT

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186176400 INVENTRONICS	EM FIT 18/220-240/350 D CS L G3	Shipping carton box 50 Pieces	320 x 183 x 130 mm	7.61 dm ³	111.10 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.