

EM FIT 44/220-240/1A05 DS C CCT *(NEW)*

EM FIT CCT | Compact constant current LED driver – Non dimmable



Product family features

- Supply voltage: 220...240 V
- Fixed output (no dimming)
- CCT selection via switch
- SELV

Product family benefits

- Higher quality of light thanks to < 5% output ripple current
- High efficiency
- CCT selection via switch

Areas of application

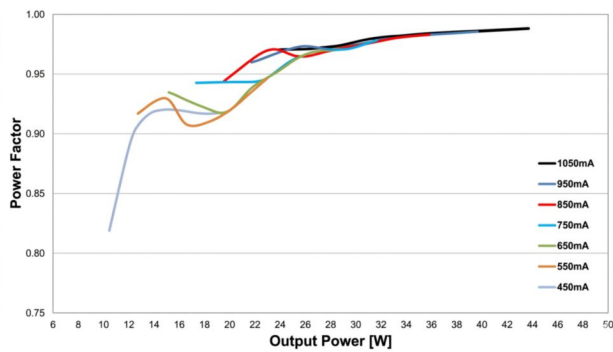
- Suitable for downlights, spotlights and LED panels
- Suitable for indoor SELV installations

Technical data

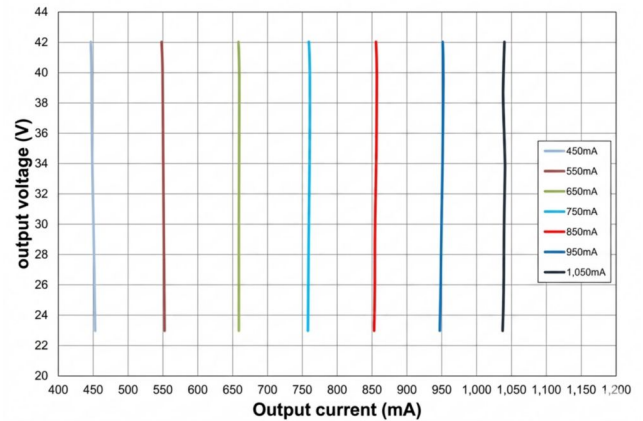
Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Nominal input current at 230 V	0.22 A
Total harmonic distortion	< 10 %
Power factor λ	0.70C...0.96
Efficiency in full-load	90 %
Device power loss	4.4 W
Inrush current	24 A
Max. ECG no. on circuit breaker 10 A (B)	26
Max. ECG no. on circuit breaker 16 A (B)	42
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Protective conductor current	0.7 mA
Nominal output voltage	23...42 V
U-OUT (working voltage)	60 V
Nominal output current	450/550/650/750/850/950/1050 mA
Default output current	1050 mA
Output current tolerance	± 5 %
Output ripple current (100 Hz)	≤ 3 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	10.35...44 W
Maximum output power	44 W
Galvanic isolation primary/secondary	SELV

Typical Power Factor v Load

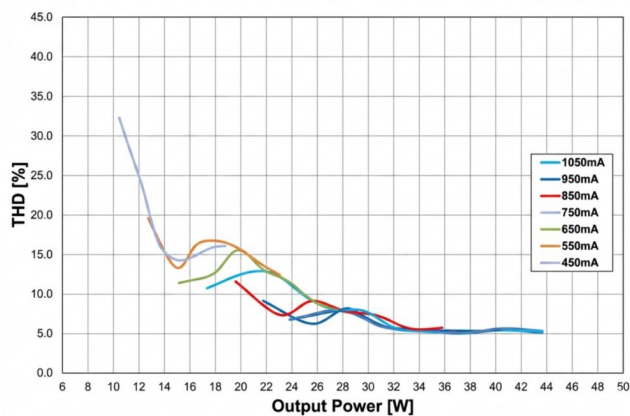


Operating Window



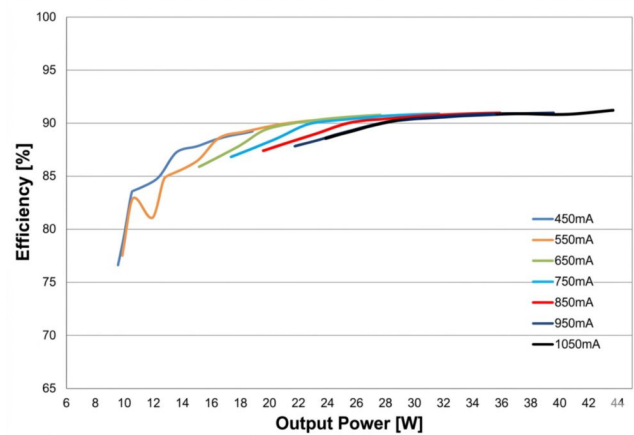
EM FIT 44 DS C CCT Typical Power Factor vs Load

Typical THD v Load



EM FIT 44 DS C CCT Operating window

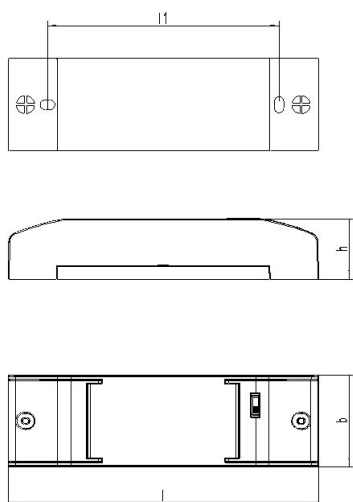
Typical Efficiency v Load 230 V 50 Hz



EM FIT 44 DS C CCT Typical THD Vs Load

EM FIT 44 DS C CCT Typical Efficiency vs Load

Dimensions & weight



Product weight	133.00 g
Length	145.0 mm
Width	43.0 mm
Height	28.0 mm
Mounting hole spacing, length	108.0 mm
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.75...1.5 mm ²
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Cable/wire length, output side	2000 mm

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	80 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...85 °C
Permitted rel. humidity during operation	5...95 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) At T_c = 80°C / 10% failure rate / At T_c = 70°C / 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	II
Suitable for emergency lighting	No
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	2
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 / ENEC / VDE / RCM
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / CISPR 15 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547
Type of protection	IP20

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	31-07-2026
Primary Article Identifier	6937186196583
Declaration No. in SCIP database	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.

Download Data

File		
Certificates	PDF	▶OT FIT ENEC 40057833 240626
Certificates	PDF	▶ENEC cert_40057833_Clas II
CAD data 3-dim	Compressed	▶EM FIT DS C CCT CAD3PDF 190626
CAD data	Compressed	▶EM FIT DS C CCT STEP 190626
Mandatory Publications	PDF	▶EM FIT CE 4529505 03 110526
User instruction	PDF	▶UI EM FIT DS C CCT

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186196583 INVENTRONICS	EM FIT 44/220-240/1A05 DS C CCT	Shipping carton box 50 Pieces	310 x 225 x 170 mm	11.86 dm ³	140.76 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