

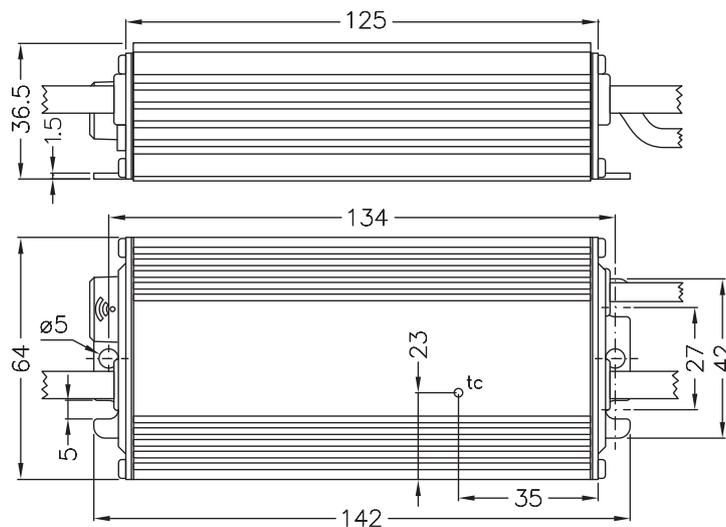
EUM-075S210EE



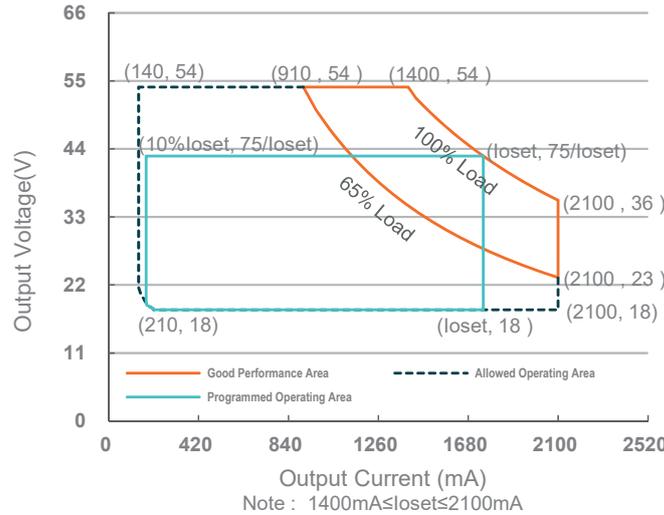
Dati tecnici / Technical data

Input voltage VAC/DC	Output Voltage Range (Vdc)	Output power Max (W)	Current Range (mA)	Typical Efficiency @220Vac	Typical Power Factor @220Vac	Dimension mm (LxWxH)
100-277	18~54	75	140~2100	89.0%	0.96	142x64x36.5

Disegno tecnico / Technical drawing



Current/Voltage Operation Area



Input specifications

Parameter	Min.	Typ.	Max.	Notes
Input AC Voltage	90 Vac	-	305 Vac	
Input DC Voltage	127 Vdc	-	300 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.75 MIU	UL 8750; 277Vac/60Hz
	-	-	0.70 mA	IEC 60598-1; 240Vac/60Hz
Input AC Current	-	-	0.81 A	Measured at 100% load and 120 Vac input.
	-	-	0.43 A	Measured at 100% load and 220 Vac input.
Inrush Current(I ² t)	-	-	1.10 A ² s	At 220Vac input, 25°C cold start, duration=364 μs, 10%lpk-10%lpk.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% Load (48-75W)
THD	-	-	20%	At 220-240Vac, 50-60Hz, 75%-100% Load (56-75W)
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (56-75W)

Output specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range	140mA	-	2100mA	
Output Current Setting Range with Constant Power	1400mA	-	2100mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage	-	-	60V	
Line Regulation	-	-	±1%	Measured at 100% load
Load Regulation	-	-	±5%	
Turn-on Delay Time	-	-	0.5 s	Measured at all dimming modes except DALI-2, and 120-277Vac input, 65%-100% load
	-	-	1.0 s	Measured at DALI-2 dimming mode, and 120-277Vac input, 65%-100% load
Temperature Coefficient of loset	-	0.06%/°C	-	Case temperature = 0°C~Tc max

General specifications

Parameter	Min.	Typ.	Max.	Notes
Efficiency at 120 Vac input: Io=1400 mA Io=2100 mA	85.0% 84.0%	87.0% 86.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Efficiency at 220 Vac input: Io=1400 mA Io=2100 mA	87.0% 86.0%	89.0% 88.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Efficiency at 277 Vac input: Io=1400 mA Io=2100 mA	87.5% 87.0%	89.5% 89.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Power Monitoring Accuracy	-1%	-	1%	Measured at 220Vac input and 100% load
Standby Power	-	-	0.5 W	Measured at 230Vac/50Hz; Dimming off
MTBF	-	521,000 Hours		Measured at 220Vac input, 80%Load and
25°C ambient temperature (MIL-HDBK-217F)				
Lifetime	-	101,000 Hours		Measured at 220Vac input, 80%Load and 70°C case temperature; See lifetime vs. Tc curve for the details
Operating Case Temperature for Safety Tc_s	-40°C	-	+90°C	
Operating Case Temperature for Warranty Tc_w	-40°C		+80°C	Case temperature for 5 years warranty Humidity: 10% RH to 95% RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5%RH to 95%RH

General specifications

Dimension mm (LxWxH)	Dimension inch (LxWxH)	Net Weigth
142 x 64 x 36.5	5.59 x 2.52 x 1.44	630 g

Dimming specifications

Parameter	Min.	Typ.	Max.	Notes
DA, DA High Level	9.5 V	16 V	22.5 V	
DA, DA Low Level	-6.5 V	0 V	6.5 V	
DA, DA Current	0 mA	-	2 mA	
Dimming Output Range	10%loset	-	loset	1400 mA ≤ loreset ≤ 2100 mA
	140mA	-	loset	140 mA ≤ loreset ≤ 1400 mA

Safety & EMC Compliance

Safety Category	Standard
UL/CUL	UL 8750, CAN/CSA-C22.2 No. 250.13
ENEC	EN 61347-1 ⁽¹⁾ , EN 61347-2-13
UKCA	BS EN 61347-1 ⁽¹⁾ , BS EN 61347-2-13 BS EN 301 489-1 BS EN 301 489-3 BS EN 300 330 BS EN 62479/BS EN 50663/BS EN 50665/BS EN 50364
CE	EN 61347-1 ⁽¹⁾ , EN 61347-2-13 EN 301 489-1 EN 301 489-3 EN 300 330 EN 62479/EN 50663/EN 50665/EN 50364
CB	IEC 61347-1 ⁽¹⁾ , IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
KS	KS C 7655
BIS	IS 15885(Part2/Sec13)
Performance	Standard
ENEC	EN IEC 62384
EMI Standards	Notes
BS EN/EN IEC 55015/GB/T 17743 ⁽²⁾	Conducted emission Test & Radiated emission Test
BS EN/EN IEC 61000-3-2/GB 17625.1	Harmonic current emissions
BS EN/EN 61000-3-3	Voltage fluctuations & flicker
FCC Part 15 ⁽²⁾	ANSI C63.4 Class B This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: [1] this device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesired Operation.
EMS Standards	Notes
BS EN/EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
BS EN/EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
BS EN/EN 61000-4-4	Electrical Fast Transient / Burst-EFT
BS EN/EN 61000-4-5	Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV
BS EN/EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
BS EN/EN 61000-4-8	Power Frequency Magnetic Field Test
BS EN/EN 61000-4-11	Voltage Dips
BS EN/EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment
DALI-2 Standards	Notes
DALI-2 ⁽³⁾	IEC 62386-101, 102 & 207

Notes:

- (1) EE models meet the requirements for EN/BS EN/IEC 61347-1(Class II), when the driver is energized, the allowed leakage current is perceptible but harmless.
 (2) This LED driver meets the EMI specifications above, but EMI performance of a luminaire that contains it depends also on the other devices connected to the driver and on the fixture itself.
 (3) DALI Parts: 101, 102, 207, 251, 252, 253.