

LED Power Supply MLT-31



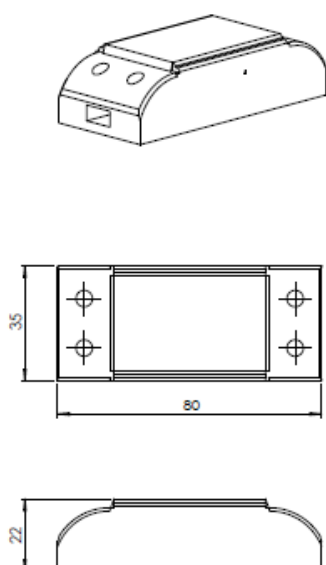
Features

Fixed output current 300mA Small dimensions
Efficiency > 91%
Universal AC input 160 to 295VAC
Protections: Short circuit / Overload / Over voltage / Over temperature Output fixed constant current
Built in PFC function
IP20 design for indoor or outdoor installations Cooling by free air convection
100% full load burn in test High reliability
Compliance to worldwide safety regulations for lighting
1 years warranty

Applications

Linear and area lighting Office – Industrial – Shop
Suitable for LED lighting and moving sign applications
Suitable for indoor use only.

Scheme (mm)



Description

Non-isolated power supply for LED. Stable working at wide range of temperatures -- - 25 °C to +50 °C .

Electrical input data

Nominal voltage	220-240 VAC
Nominal frequency	50/60 Hz
Voltage range	165-300 VAC
Frequency range	47-63 Hz
Power factor	> 0.8 Full load
Efficiency	>0,91 %, Full load
Nominal current	0.15 A
Total Harmonic Distortion	n n
Surge immunity	2000 V
Isolated	no

Electrical output data

Output voltage range	40-100 VDC
Output current	0,3 A
Output power range	15-30 W
Output current tolerance	± 5 %
Output current ripple	< 1 %

Protection

Over current	Yes / 300±5% mA
Short circuit	Yes
Over voltage	150-200V
Over temperature	Yes / 150 °C (IC temperature)

Environment

Ambient temperature range	-25...+50 °C
Maximum case temperature	75 °C
Max. case temp. in fault condition	95 °C
Storage temperature range	-55 ...+85 °C
Relative humidity	5-85 %, non-condensing
Environmental rating	Indoor
IP rating	IP 20
Mains switching cycles	> 150'000
Expected lifetime	30'000 h, tc max 60'000 h, tc max -10C

Dimensions and weight

Length	80 mm
Width	35 mm
Height	22 mm
Weight	0,036 kg

Packing and logistics

Order part number	MLT-31
Individual package	350*80*22mm / 0.045 Kg approximately
Grope box package	200 pcs per box

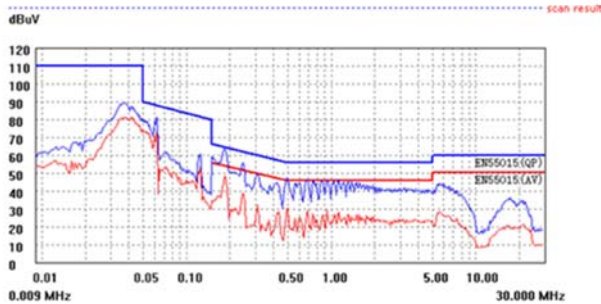


EMI TEST

EMI TEST REPORT

Organization: Operator: EUT:
Place: Time: 2015/5/11/15:14 Test equipment: KH3939
Detector: PK+AV Test-time(ms): 50 SN: 1439316
Limit: EN55015 Transducer(PK/AV): PK / AV JZ: 2.13.1995
Remark:

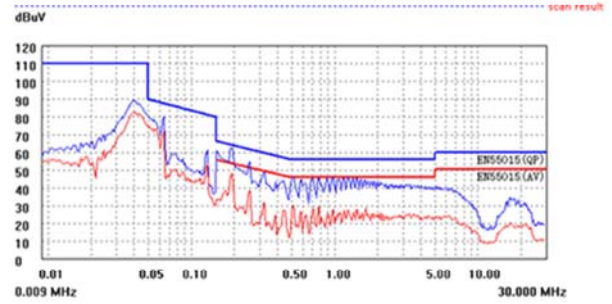
Start(MHz)	End(MHz)	Step(MHz)
0.009	0.150	0.001
0.150	2.000	0.002
2.000	10.000	0.010
10.000	30.000	0.025



EMI TEST REPORT

Organization: Operator: EUT:
Place: Time: 2015/5/11/15:20 Test equipment: KH3939
Detector: PK+AV Test-time(ms): 50 SN: 1439316
Limit: EN55015 Transducer(PK/AV): PK / AV JZ: 2.13.1873
Remark:

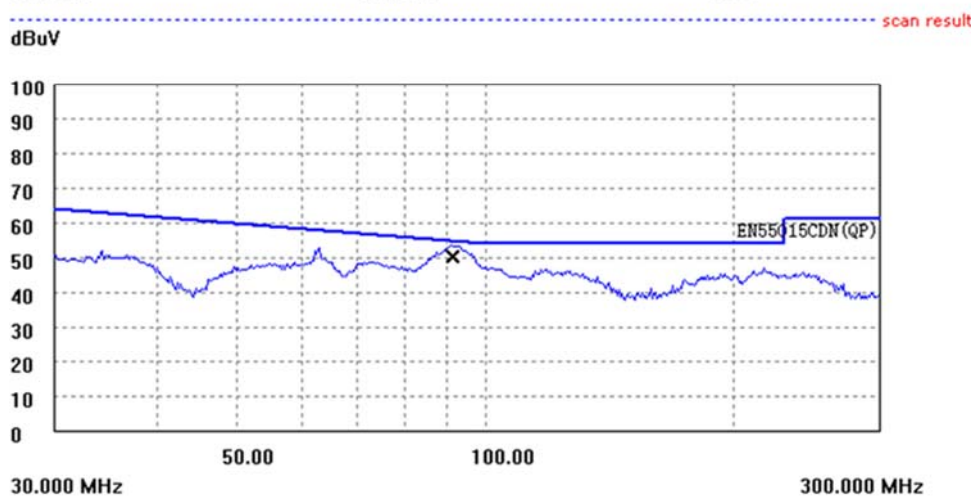
Start(MHz)	End(MHz)	Step(MHz)
0.009	0.150	0.001
0.150	2.000	0.002
2.000	10.000	0.010
10.000	30.000	0.025



EMI TEST REPORT

Organization: Operator: EUT:
Place: Time: 2015/5/11/15:23 Test equipment: KH3939
Detector: PK Test-time(ms): 30 SN: 1439316
Limit: EN55015CDN Transducer(PK/AV): CDN / CDN JZ: 2.13.1837
Remark:

Start(MHz)	End(MHz)	Step(MHz)
30.000	100.000	0.100
100.000	230.000	0.200
230.000	300.000	0.200



(QP)	freq(MHz)	lev(dBuV)	Lim(dBuV)	Δ (lev-Lim)
	91.240	50.1	55.3	-5.2