



DE50007

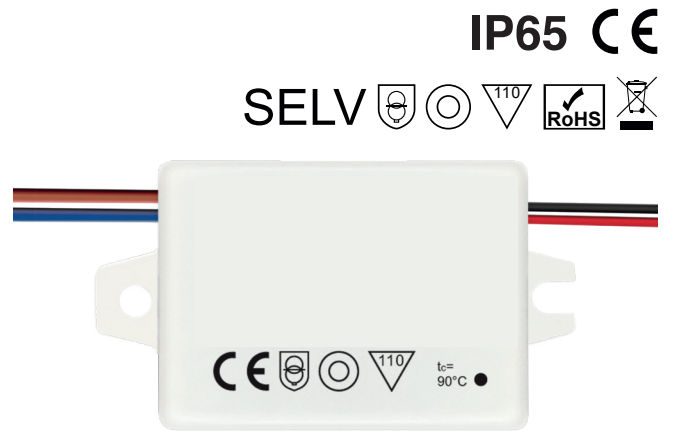
Series 500mA C.C. Power Supply
Alimentatori C.C. serie 500mA

DC Output with constant current of 500 mA

Built-in type with double or reinforced insulation
Compact case
Average lifetime 50.000 h

Protection

- Short- & open circuit proof
- Auto. overheat regulation or cut off
- Overload protection
- SELV



Main technical data

Rated supply voltage	220–240 V	Operating ambient temp.	-20 – +50 °C
AC voltage range	198–264 V	Operating humidity	10–95 %
Mains frequency	50–60 Hz	Storage temperature range	-40 – +90 °C
Input current	60 mA max.	Max. number of switching cycles	> 100.000
THD ¹	< 25 %	Type of protection	IP65
Power factor ¹	0.90 C	Environmental rating	Outdoor*
Start delay	< 0.5 s	Surge transient protection	1.0 kV (L–N)
Inrush current	15 A / 30 μs	Dimension (L x W x H) ¹	49 x 27.2 x 20 mm
Output P _{st} ^{LM}	≤ 1	*Necessary installation inside box to obtain class II insulation	
Output SVM	≤ 0.4		

All data for U_{mains} = 230Vac, 50 Hz, full load

¹ See diagrams below

Product technical data

Output current	Output power	Output voltage	Output current tolerance	Out. current LF ripple ²	No load voltage	Power consumption	Current consumption	Efficiency ¹	Max. case temp. (tc)
500 mA	7 W	6.5–13 Vdc	± 5 %	± 3 %	18 Vdc	8.8 W	42.4 mA	74 %	85 °C

All data for U_{mains} = 230Vac, 50 Hz, full load

¹ See diagrams below

² < 120 Hz

Standards / Conformity

Safety	Performance	EMC	ECO-Design	RoHS
EN 61347-1 EN 61347-2-13 EN 62493	EN 62384	EN 55015 EN 61000-3-2 EN 61000-3-3 EN 61547	EN 62442-3	EN IEC 63000

Lifetime

ta	40 °C	50 °C
tc	75 °C	85 °C
Lifetime	100.000 h	50.000 h

According to the nominal operating conditions listed in the datasheet and a failure rate of less 10 %.

Miniature circuit breaker

Type	B10	B13	B16	B20	C10	C13	C16	C20	Inrush current
DE50007	79	103	127	158	79	103	127	158	15 A / 30 μs

Insulation

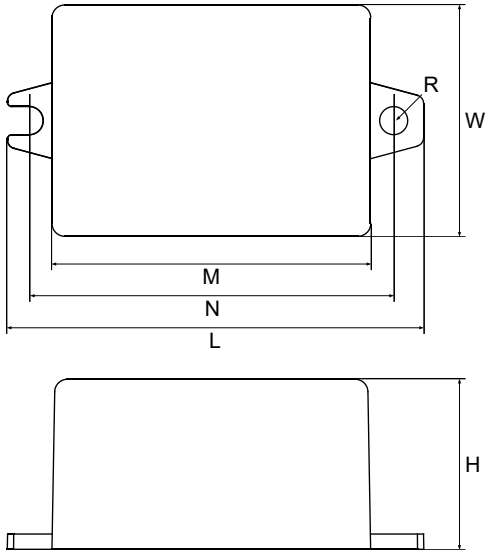
	Mains	LED Output	Case
Mains	-	Double / reinforced	Reinforced
LED Output	Double / reinforced	-	Basic
Case	Reinforced	Basic	-



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Physical Parameter



L:	49.0 mm	M:	37.5 mm	Tolerance:	
W:	27.2 mm	N:	42.9 mm	0~100	± 0.5 mm
H:	20.0 mm	R:	1.65 mm	100~	± 1 mm

Housing material:	Polycarbonate, potted
Soldering:	Lead-free, comply with RoHS
Label:	Surface print
Weight:	40 g

Connection

		Color	Cable cross section	Lenght	Stripping
PRI	L	Brown	0.75 mm ²	128 mm	6 mm
	N	Blue	0.75 mm ²	128 mm	6 mm
SEC	+	Red	0.34 mm ²	135 mm	10 mm
	-	Black	0.34 mm ²	135 mm	10 mm

Each cable can have a tolerance of ± 5 mm.

Wiring diagram



Hot plug-in or secondary switching is not permitted!

The maximum secondary wire lenght is 2 m.