



# DI50020IND

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

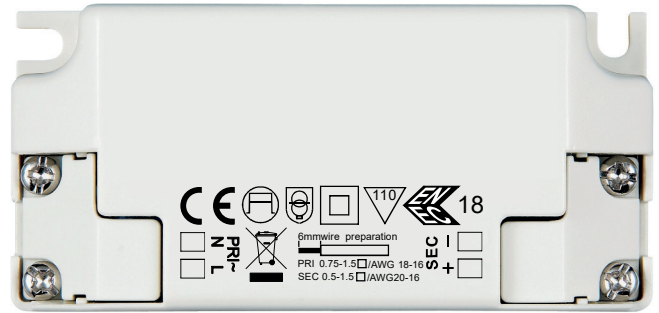


DC Output with constant current 500mA

Ripple current  $\pm 5\%$   
Suitable for Class II luminaires  
Compact case with strain reliefs for independent use  
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	Max. case temp. (tc)	90 °C
Mains frequency	50–60 Hz	Operating humidity	10–95 %
Input current	130 mA	Storage temperature range	-25 – +85 °C
THD <sup>1</sup>	< 15 %	Max. number of switching cycles	> 50.000
Power factor	0.90 C	Type of protection	IP20
Efficiency Effi	86 %	Environmental rating	Indoor
Start delay	< 0.5 s	Surge transient protection	1.0 kV (L–N)
Protection class	II	Dimension (L x W x H)	85 x 40.4 x 22 mm
Inrush current	8.3 A / 140 µs		
Output current tolerance <sup>2</sup>	± 5 %		
Out. current LF ripple	± 4 %		
Output P <sub>st</sub> <sup>LM</sup>	≤ 1		
Output SVM	≤ 0.4		

All data for U<sub>mains</sub> = 230Vac, 50 Hz, full load  
<sup>2</sup> < 120 Hz

### Product technical data

Type	
Output power	15–21 W
Output current	500 mA
Output voltage	30–42 Vdc
No load voltage	53 Vdc

All data for U<sub>mains</sub> = 230Vac, 50 Hz, full load



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## 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

Type	ta	40 °C	50 °C
DI50020IND	tc	80 °C	90 °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
DI50020IND	31	41	50	63	53	69	85	106	8.3 A / 140 µs

## Insulation

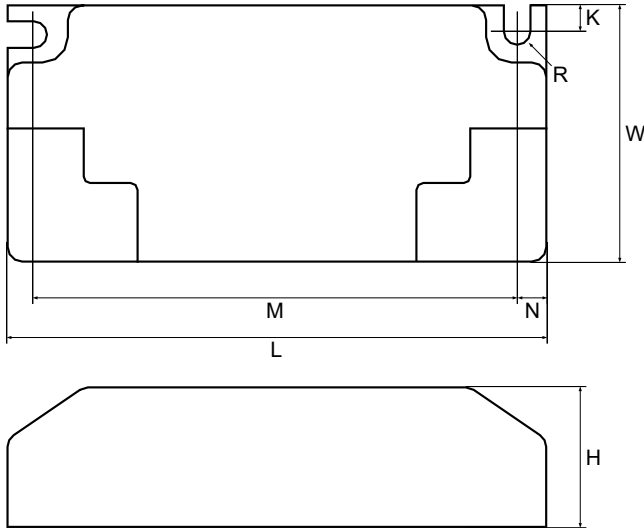
	Mains	LED Output	Case
Mains	-	Double / reinforced	Reinforced
LED Output	Double / reinforced	-	Basic
Case	Reinforced	Basic	-



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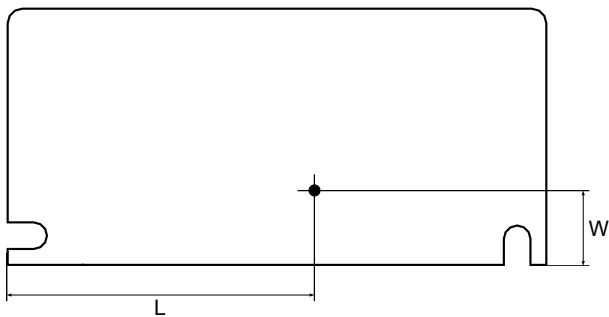
## Physical Parameter



L:	85.0 mm	W:	40.4 mm	Tolerance:	
M:	76.4 mm	H:	22.0 mm	0~100	± 0.5 mm
N:	4.6 mm	R:	2.1 mm	100~	± 1 mm
K:	4.0 mm				

Housing material: Polycarbonate  
Soldering: Lead-free, comply with RoHS  
Label: Surface print  
Weight: 62.9 g

## Case temperature (tc-point)



L:	50.0 mm	Tolerance:	
W:	10.0 mm	0~100	± 0.5 mm
		100~	± 1 mm

Bottom side

## Terminal Block

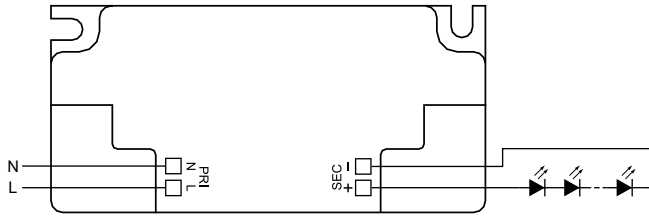
	Type	Cable cross section	Stripping
PRI	Screw terminal	0.75-1.5 mm <sup>2</sup>	6 mm
SEC		0.5-1.5 mm <sup>2</sup>	6 mm



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## Wiring diagram



Hot plug-in or secondary switching is not permitted!

The maximum secondary wire length is 2 m.

\* L'alimentatore viene fornito già settato a 500mA. NON toccare i DIP switch!

Power supply is provided already setted to 500mA. DO NOT touch DIP switches!