



## Features

- 10 years design life
- Non-maintained operation
- Premium Lithium batteries (LiFePO<sub>4</sub>)
- Includes automatic and manual test facility
- Suitable for LED arrays of 10-50 V or 50-250 V
- Low profile form factor for luminaire installation
- Compliant to Australian and international safety and performance standards
- Adjustable constant power emergency output 1.5W, 2.5W, 3.5W (50 version) or 2.5W, 3.5W, 4.5W (250 version)



### Selectable power

Adjustable constant power emergency output



### Selectable rated duration

Adjustable rated duration of 1hr, 2hrs and 3hrs



### Lithium powered

Supports environmentally friendly LiFePO<sub>4</sub> battery



### Device type 1

Functions as IEC 62386-202 device for monitoring and testing



## Product range

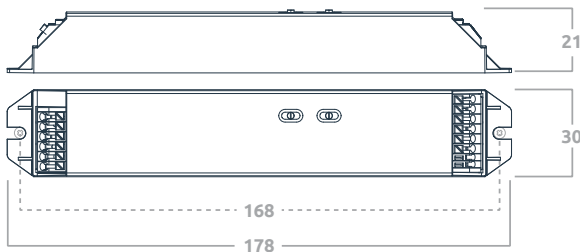
Order code	Description
zc-em-smart-50	Smart emergency converter, 10V - 50 V LED
zc-em-smart-250	Smart emergency converter, 50V - 250 V LED

## Features

- 10 years design life
- Non-maintained operation
- Premium Lithium batteries (LiFePO<sub>4</sub>)
- Includes automatic and manual test facility
- Suitable for LED arrays of 10 - 50 V or 50 - 250 V
- Compliant to Australian and international safety and performance standards
- Adjustable rated duration of 1hr, 2hrs and 3hrs
- Adjustable constant power emergency output 1.5W, 2.5W, 3.5W (50 version) or 2.5W, 3.5W, 4.5W (250 version)
- Functions as IEC 62386-202 device for monitoring and testing
- Low profile form factor for luminaire installation

## Dimensions

<b>Dimensions</b>	W178 / H21 / D30 mm	<b>Mounting centres</b>	168 mm
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## Specifications

<b>Supply voltage</b>	220 - 240V ~ 50 Hz	
<b>Mains surge capability between</b>	L - N	1 kV
	L / N - PE	2 kV
<b>U-out (incl. open-/short-circuit)</b>	zc-em-smart-50	60 V
	zc-em-smart-250	290 V
<b>Wiring</b>	Push-in terminals	
<b>Material</b>	PC body	
<b>Operating temperature</b>	-25 to +55 °C	
<b>Classification</b>	Class II	
<b>Mounting</b>	Built-in	
<b>Ingress protection</b>	IP20	
<b>Lifetime</b>	Up to 100,000 hrs	

## Emergency specifications

<b>Mains voltage changeover threshold</b>	According to EN 60598-2-22	
<b>Emergency mode changeover</b>	< 0.5 s from detection of emergency event	
<b>Emergency output*</b>	zc-em-smart-50	1.5 / 2.5 / 3.5 W
	zc-em-smart-250	2.5 / 3.5 / 4.5 W
<b>Rated duration*</b>	1hr / 2hr / 3hr	
<b>Testing</b>	<b>Function</b>	Weekly 5s test
	<b>Duration*</b>	Yearly 1hr / 2hr / 3hr test
<b>Compliance standards</b>	IEC 61347-1	
	IEC 61347-2-7	
	AS/NZS 61347-1	
	AS/NZS 2293.3	
	IEC 62386 - 202	
IEC 62034		
CISPR 15		
<b>Charger</b>	<b>Type</b>	Variable
	<b>Time</b>	16 hours
<b>Batteries:</b>	zc-batt-1A1-ADA	
	zc-batt-1C2-ADA	
	zc-batt-1A2-ADA	
	<b>Type</b>	LiFePO <sub>4</sub>
	zc-batt-1B2-ADA	
	zc-batt-1B3-ADA	
	zc-batt-1B4-ADA	
	zc-batt-1B5-ADB	
<b>Voltage</b>	3.2 V	

Other battery configurations available upon request

\*Selectable via dip switch

## zc-em-smart-50

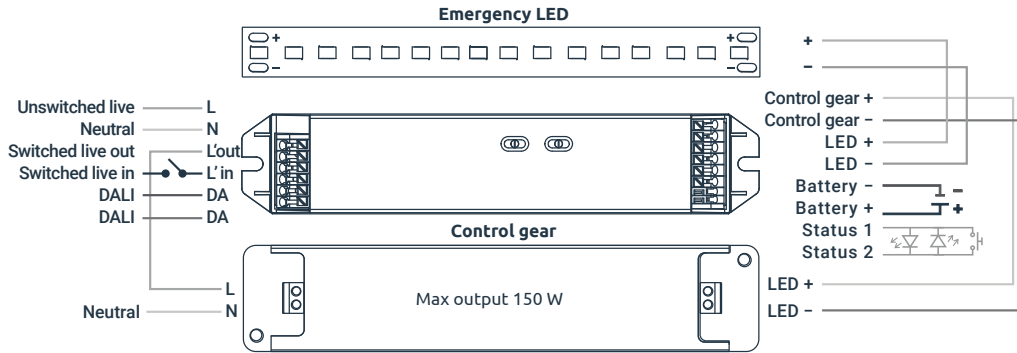
Design life	5 Years			10 Years		
	Battery code	1hr	2hrs	3hrs	1hr	2hrs
zc-batt-1A1-ADA	1.5 W					
zc-batt-1C2-ADA	2.5 W 3.5 W	1.5 W		1.5 W		
zc-batt-1A2-ADA		2.5 W	1.5 W	2.5 W		
zc-batt-1B2-ADA		3.5 W	2.5 W 3.5 W	3.5 W	1.5 W 2.5 W	1.5 W
zc-batt-1B3-ADA					3.5 W	2.5W
zc-batt-1B4-ADA						3.5 W

## zc-em-smart-250

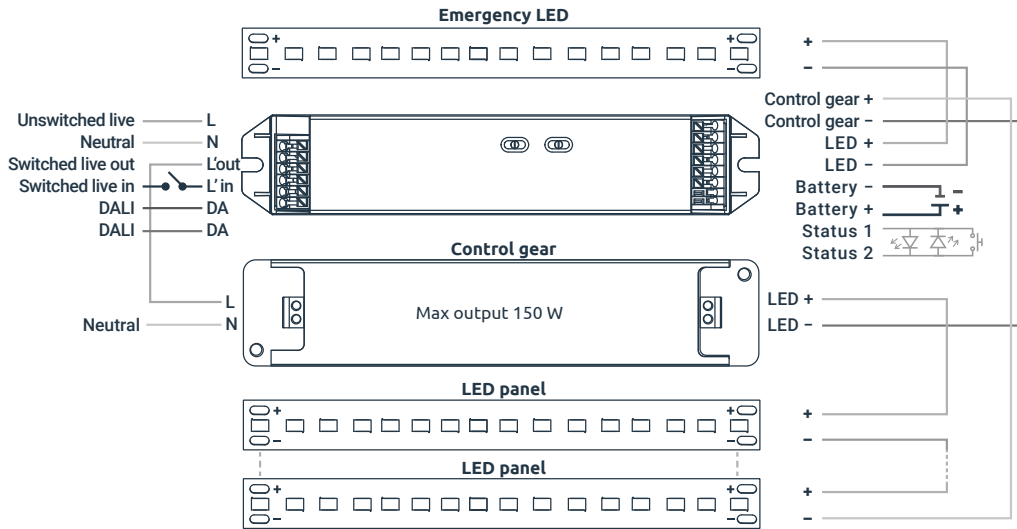
Design life	5 Years			10 Years		
	Battery code	1hr	2hrs	3hrs	1hr	2hrs
zc-batt-1C2-BDA	2.5 W 3.5 W					
zc-batt-1A2-BDA	4.5 W	2.5 W		2.5 W		
zc-batt-1B2-BDA		3.5 W	2.5 W 4.5 W	3.5 W	2.5 W 4.5 W	
zc-batt-1B3-BDA			4.5 W		3.5 W	2.5W
zc-batt-1B4-BDA					4.5 W	3.5 W
zc-batt-1B5-BDA						4.5 W

Wiring diagrams

zc-em-smart configured with external LED driver for maintained mode in addition to emergency mode



zc-em-smart configured with external LED driver supplying series wired maintained LED panels with emergency panel.



zc-em-smart configured with external LED driver powering LED panels in parallel in maintained operation with emergency support.

