

zencontrol Wireless emergency converter datasheet



Features

- 10 years design life
- Non-maintained operation
- 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
- Functions as IEC 62386-202 device for monitoring and testing
- 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



IEC62386-104 over Thread

Works with products supporting IEC 62386-104 over Thread



Selectable rated duration

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



Lithium powered

Supports environmentally friendly LiFePO₄ battery



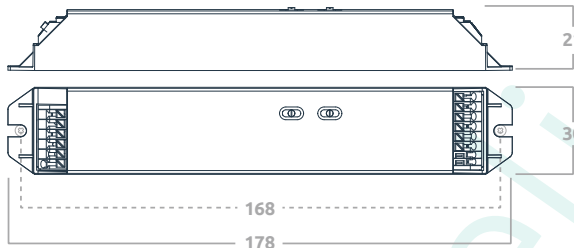
Product range

Order code	Description
zc-em-iot-50	Wireless emergency converter, 10V - 50 V LED
zc-em-iot-250	Wireless emergency converter, 50V - 250 V LED

Features

- 10 years design life
- Non-maintained operation
- Premium Lithium batteries (LiFePO₄)
- Includes automatic and manual test facility
- Wireless support for IEC62386-104 over Thread
- 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 (mm)



W178 / H22 / D32 mm Fixing centres 168 mm

Specifications

Supply voltage	220 - 240V ~ 50 Hz
Mains surge capability between	
L - N	1 kV
L / N - PE	2 kV
U-out (incl. open-/short-circuit)	
zc-em-iot-50	60 V
zc-em-iot-250	290 V
Wireless	IEC62386-104 over Thread
Wiring	Push-in terminals
Material	PC body
Operating temperature	-25 °C to +55 °C
Classification	Class II
Mounting	Built-in
Ingress protection	IP20
Lifetime	Up to 100,000 hrs

Emergency specifications

Mains voltage changeover threshold	According to EN 60598-2-22	
Emergency mode changeover	< 0.5 s from detection of emergency event	
Emergency output*		
zc-em-iot-50	1.5 / 2.5 / 3.5 W	
zc-em-iot-250	2.5 / 3.5 / 4.5 W	
Rated duration*	1hr / 2hr / 3hr	
Testing	Function	Weekly 5s test
	Duration*	Yearly 1hr / 2hr / 3hr test
Compliance standards	IEC 61347-1 IEC 61347-2-7 AS/NZS 61347-1 AS/NZS 2293.3 IEC 62386 - 202 IEC 62034 CISPR 15	
Charger	Type	Variable
	Time	16 hours
Batteries:		
zc-batt-1500-1x1 zc-batt-2000-1x2 zc-batt-3000-1x2 zc-batt-6000-1x2 zc-batt-9000-1x3 zc-batt-12000-1x4 zc-batt-15000-1x5	Type	LiFePO ₄
	Voltage	3.2 V

Other battery configurations available upon request

*Selectable via dip switch

zc-em-iot-50

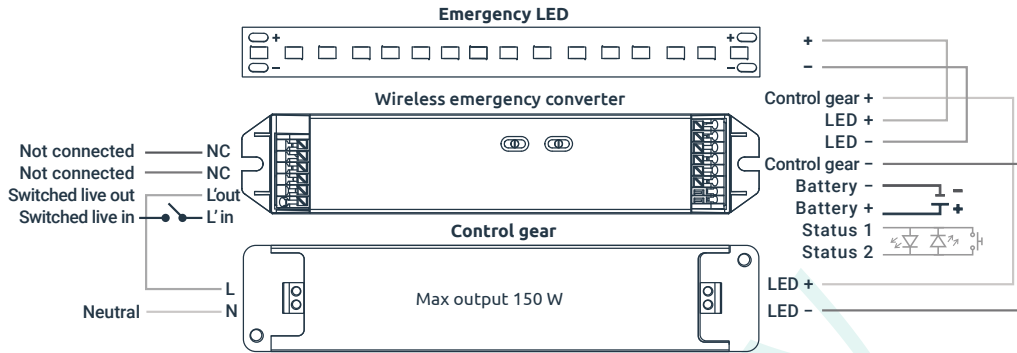
Design life	5 Years			10 Years		
	Battery code	1hr	2hrs	3hrs	1hr	2hrs
zc-batt-1500-1x1	1.5 W					
zc-batt-2000-1x2	2.5 W 3.5 W	1.5 W		1.5 W		
zc-batt-3000-1x2		2.5 W	1.5 W	2.5 W		
zc-batt-6000-1x2		3.5 W	2.5 W 3.5 W	3.5 W	1.5 W 2.5 W	1.5 W
zc-batt-9000-1x3					3.5 W	2.5 W
zc-batt-12000-1x4						3.5 W

zc-em-iot-250

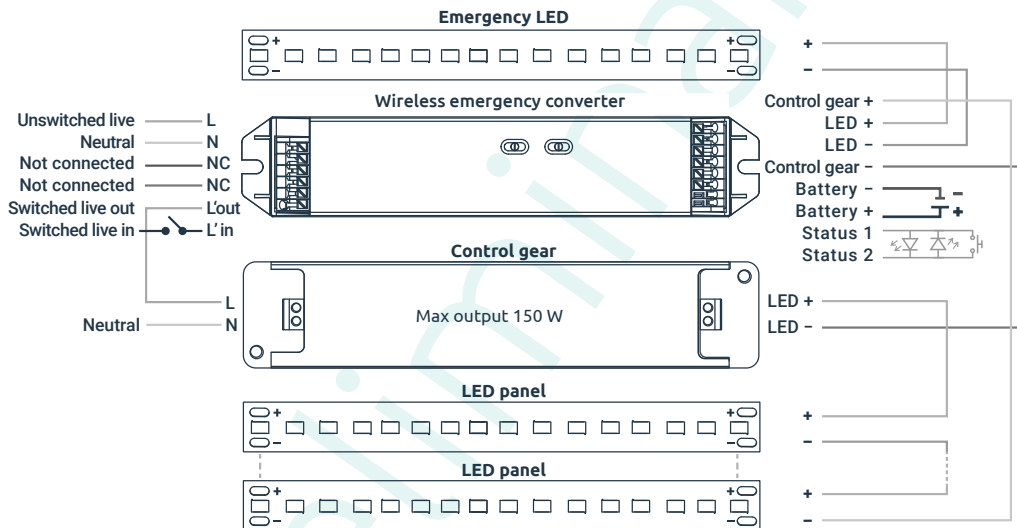
Design life	5 Years			10 Years		
	Battery code	1hr	2hrs	3hrs	1hr	2hrs
zc-batt-2000-1x2	2.5 W 3.5 W					
zc-batt-3000-1x2	4.5 W	2.5 W		2.5 W		
zc-batt-6000-1x2		3.5 W	2.5 W 4.5 W	3.5 W	2.5 W 4.5 W	
zc-batt-9000-1x3			4.5 W		3.5 W	2.5 W
zc-batt-12000-1x4					4.5 W	3.5 W
zc-batt-15000-1x5						4.5 W

Wiring diagrams

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



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



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

