



Specifier's Reference

Project
Type
Model No.
Comments

codes and standards

- UL 924 listed
- NFPA 101, NEC, IBC, BOCA, and OSHA illumination standard

construction

- Free standing, NEMA 1 enclosure.
- Durable powder coat finish.
- Multiple conduit entries.
- 98% throughput efficiency.
- Single conversion UPS, 1 ms transfer time.
- Standard 90 minutes minimum of operating time at full load.
- Pulse width modulated (pwm) design.

application

- Operates incandescent, electronic ballast loads, HID, and LED lighting loads as well as critical loads requiring conditioned emergency power.
- A versatile emergency power source option that can be located outside of critical spaces such as hazardous locations, extreme environments, or aesthetically sensitive areas.
- For operation with LED loads, it is critical to understand the in-rush characteristics of the LED luminaire so as not to blow the output fusing in the Synthesis Zone Inverter.
- Additionally, it is important to understand the LED luminaire input characteristics with respect to true power versus apparent power so as not to overload the Synthesis Zone Inverter and not achieve the required 90 minute run time.

electronics - input

- 120 or 277 VAC.
- Frequency 60.0 Hz \pm 2.0%.
- Input voltage tolerance \pm 10%
- Input circuit breaker is a standard feature to simplify maintenance.

electronics - output

- Solid state PWM inverter with sine wave output.
- Output distortion <3% THD (linear load).
- Output fusing standard, output circuit breakers optional.
- Output frequency 60 Hz + 2 Hz.
- Load power factor capability is 0.5 lagging to 0.5 leading.
- Overload rating: 150% for 5 seconds.
- Efficiency: 98%.

electronics - charger

- Low voltage disconnect (LVD).
- Fully automatic, temperature compensated, solid-state charging system.
- Recharge time: UL 924 compliant.
- Battery circuit breaker.

standard metering/controls

- AC input breaker.
- AC output fuse.
- Battery disconnect breaker.
- LED indicating lamps for system on utility, system on inverter, overload condition, no load connected.

battery

- Maintenance free, sealed lead calcium battery with an expected life up to 6 years, and optimum operating range of 68°F (20°C) to 85°F (30°C).

warranty

- Electronics: 3 years
- Battery: 1 year full, 4 years pro-rata.

Model Example: ZI300120

ZI					
Series	Output Wattage	Voltage Configuration	Factory Installed	Optional	Circuit Breaker
ZI – Synthesis Zone Inverter	300 – 300 VA 400 – 400 VA 600 – 600 VA	120 – 120V 277 – 277V	Output Circuit Breakers 1 – OCB1 2 – OCB2	Output Circuit Breaker Voltage* A – 120 VAC R – 277 VAC	Output Circuit Breaker Rating 10 – 10 A 15 – 15 A 20 – 20 A

* Output circuit breaker voltage must match the system input voltage.

system input/output

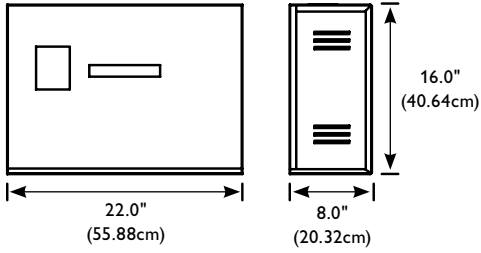
INPUT (select one)

MODEL	CAPACITY	AC INPUT VOLTAGES	INPUT AMPS ¹
ZI300	300 VA	120:277	3.1:1.4
ZI400	400 VA	120:277	5.8:2.6
ZI600	600 VA	120:277	6.2:2.8

1) Maximum input current.

dimensions

ZI300, ZI400



ZI600

