



YOUR GUIDE TO MINI-INVERTER SYSTEMS



MINI-INVERTER ADVANTAGES

ADVANTAGES OVER TRADITIONAL EMERGENCY UNITS

- Eliminates the need for specialized units such as Hazardous Environment Fixtures.
- Easy to install and maintain.
- Improves aesthetics of the space by eliminating unsightly units and combos.
- Lower ownership costs.

ADVANTAGES OVER BATTERY BACKUP BALLASTS/DRIVERS

- Unlike ballast drivers, mini-inverters can be mounted with a distance up to 1000ft.
- Inverters provide full lighting output of the fixture.
- Multiple fixtures can be run from one mini-inverter.
- Only one point of installation and maintenance needed.

ADVANTAGES OVER LARGE INVERTER SYSTEMS

- Smaller footprint and reduced costs.
- Switching capacity.
- No factory start up costs.
- No paid maintenance plan needed to sustain your warranty.
- Replacement parts are less costly and easily available.

CODE COMPLIANCE

- Warranty (Canyon & Mesa): Full coverage against defects in materials and workmanship for 5 years from date of shipment, separate 10 year prorated battery warranty.
- Warranty (Tucson Micro): Full coverage against defects in materials and workmanship for 3 years from date of shipment, separate 7 year prorated battery warranty.
- Warranty (Tucson Compact): Full coverage against defects in materials and workmanship for 1 years from date of shipment, separate 3 year prorated battery warranty.
- All models are UL924 Listed and meet NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes. Optional T-Grid models are plenum rated to UL2043 and meets city of Chicago CCEA Requirements.
- UL Listed for damp locations (200C – 300C).
- FCC Part 15 Class B Compliant.

WHAT IS A MINI INVERTER?

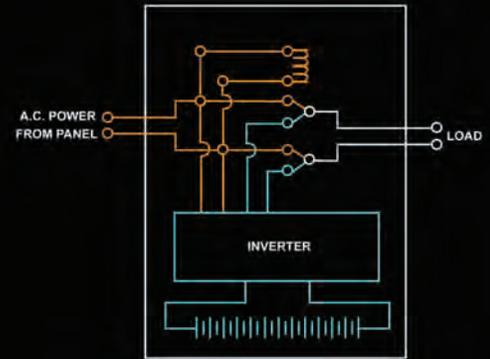
Mini-inverters are smaller versions of our AC power system. They provide emergency power for emergency egress lighting fixtures when less load is required.

WHERE ARE MINI-INVERTERS USED?

Mini-inverters can be used anywhere AC emergency power is needed. This includes churches, theaters, offices, gyms, museums, schools, and more.

HOW DO THEY WORK?

A mini-inverter converts battery DC power to AC power to be used with AC loads.



WHAT DOES A MINI-INVERTER REPLACE?

- Combos
- Hazardous Environment Emergency Fixtures
- Traditional Emergency Units
- Battery Backup Ballasts
- Emergency Generators
- Any Emergency Fixture with a Battery
- Larger (1kva - 50kva) Inverter Systems with too much capacity



INVERTER FEATURES

- Pulse Width Modulation (PWM).
- Soft start to eliminate high inrush currents.
- Full light output of connected load.
- No need to de-rate the mini-inverter when calculating load.
- I/O connectors will fit 12-gauge wire.
- Higher efficiency with smaller footprint for the same output power over competition.
- Meets UL 924 (Section 28.1) requirement for derangement signal.
- Surface, recessed or grid mounting available
- Proudly assembled in the USA

TUSCON MICRO



TUSCON COMPACT



MESA



MODEL SUFFIX	Housing Size	Input/Output Voltage	90 Minute Capacity (Watts/VA)
-32	Small	120/277	32/32
-55	Large	120/277	55/55
-20N	Small	120/277	20/20
-35N	Large	120/277	35/35

MODEL SUFFIX	Housing Size	Input/Output Voltage	90 Minute Capacity (Watts/VA)
-55/125	Small	120/277	55/125
-110/125	Large	120/277	110/250
-110/250	Small	120/277	110/125
-220/250	Large	120/277	220/250

MODEL SUFFIX	Input/Output Voltage	90 Minute Capacity (Watts/VA)
-375	120/277	375/375
-600	120/277	600/600

Add Suffix	Option Description
-G2	Self-test/Self-diagnostics
-R	Recessed Mounting
-T	Ceiling T-grid Mounting
-CC	Custom Housing Color
-RTS	Remote Test Switch Panel*

Dimensions

-35 and -55 - 14 3/4" x 4 3/8" x 7 3/8"

-20 and -32 - 14 3/4" x 3 1/8" x 7 3/8"

*Only available with -32 and -55 models

Add Suffix	Option Description
-G2	Self-test/Self-diagnostics
-R	Recessed Mounting
-T	Ceiling T-grid Mounting
-CC	Custom Housing Color
-4C	4 Output Circuit Switching
-RTS	Remote Test Switch Panel

Dimensions

-220/250 and -110/125 - 16 3/4" x 6 3/8" x 11 3/4"

-55/125 and -110/125 - 16 3/4" x 4 3/8" x 11 3/4"

Add Suffix	Option Description
-CB	(2) 10A Output Breakers
-AO	Adjustable Output (4 levels)
-G2	Self-test/Self-diagnostics

Dimensions

-375 - 18" x 8 1/4" x 16 5/8"

-600 - 18" x 8 1/4" x 25 1/4"



CANYON



MODEL SUFFIX	Input/Output Voltage	90 Minute Capacity (Watts/VA)
-750	120/277	750/750
-950	120/277	950/950
-1150	120/277	1150/1150

Dimensions 22.4" x 9.2" x 25.1"

Add Suffix	Option Description
-CBX	One to Six 10A Output Breakers
-4AO	Adjustable Output (4 levels)
-G2	Self-test/Self-diagnostics

INVERTER OPTIONS

AO

0 to 10 volt bypass or adjustable load output (2.5, 5.0, 7.5 or 10 volt). Two dip switches allow two different settings on one load.

4C

4 individually switched loads can be operated as switched, normally-on, normally-off or any combination.

4AO

Combines 4C & AO options to accommodate 4 line voltage devices or (4) 0-10 volt dimmers with adjustable output, or combination of both

RTS

Remote test switch.

G2

Self-testing/self-diagnostics.



From shopping to working to playing, mini-inverters have your emergency power and have your back. Out of sight, with peace of mind.

