



INDUSTRIAL ENCLOSURES *for alternative applications*

*N1 Critical Technologies is proud to offer
Industrial-Rated Enclosures for
backup power systems in challenging or
alternative applications.*

Engineered to meet the challenges posed by these markets:

water/wastewater treatment • transportation—railroad/bridges/tunnels/toll/lane control
manufacturing, process control • machine builders • food and beverage • pulp and paper
automotive • ISP- BDA/DAS • oil and gas • marine



INDUSTRIAL ENCLOSURES *for alternative applications*

Understanding NEMA Ratings

NEMA 1
(IP10- Indoor*)
Protection from: falling dirt

NEMA 12
(IP52- Indoor*)
Protection from: falling dirt, dust, lint, dripping and lightly splashed liquids

NEMA 3R
(IP14- Indoor/outdoor*)
Protection from: falling dirt, rain, sleet, snow, ice

NEMA 3
(IP54- Indoor/outdoor*)
Protection from: falling dirt, rain, sleet, snow, ice and windblown dust

NEMA 4
(IP66- Indoor/outdoor*)
Protection from: falling dirt, rain, sleet, snow, ice, windblown dust, splashing water, hose-directed water

"X"- Stainless steel, 304/316 options, corrosion resistance

* protect user from incidental contact with equipment

Industrial Enclosures are engineered to accommodate challenging power quality and emergency system applications like:

- AC Input, AC or DC output
- Extended runtime configurations
- Industrial environments
- Shock and vibration
- Outdoor
- Dust/dirt
- Mobile/portable
- High temperature, direct sun-light
- Rain, snow, dripping water, humidity
- Caustic chemical, corrosive environment
- Free standing, wall/pole mount

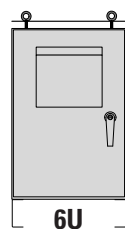
Standard Design

Construction:

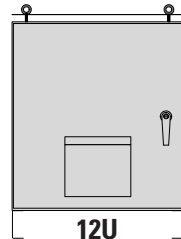
- NEMA Type 12, 3/R, 4 and IP rated
- 6, 12, 18, 30 and 42U heights
- 24" W x 36" D
- Carbon steel
- RAL-7035 light gray paint
- Single door, dual-access with front and rear door
- Locking, pad-locking door with 3-point latching mechanism and hidden hinges
- Lifting eyes
- 4-inch "C" channel leg stands
- Foam in place, water and chemical resistant gasketing
- 2 sets/4 post heavy duty mounting rails for rack mounted equipment
- 6-inch gland plate for input/output connections
- Media pocket on front door

Thermal Management

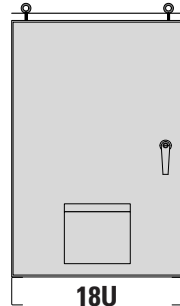
- Door mounted, 6-inch ventilation fan- 133 CFM, user defined voltage
- Door mounted, 6-inch ventilation louvers, grill and filter



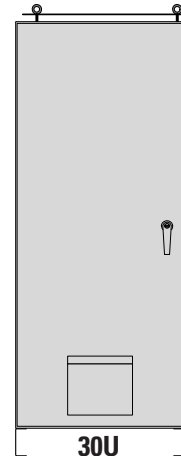
6U



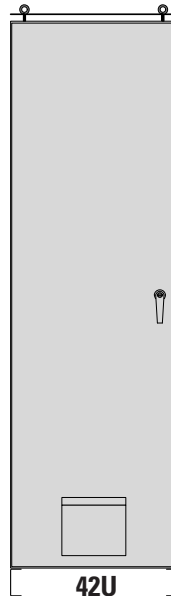
12U



18U



30U



42U



Standard Options

Construction:

- Stainless Steel (304/316L)
- Custom paint- user specified, standard RAL colors
- Front door only
- User defined security, access control and door handles
- EMI/RFI attenuating gasketing
- Seismic mounting and vibration attenuation
- Sliding and fixed shelves
- Sub-panel for din-rail mounted equipment
- Interior lighting and door window kits

Thermal Management

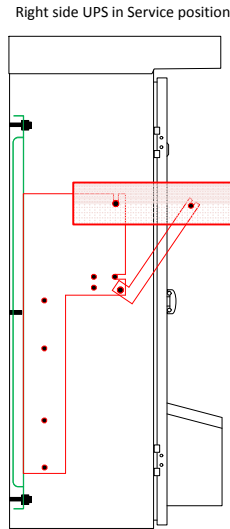
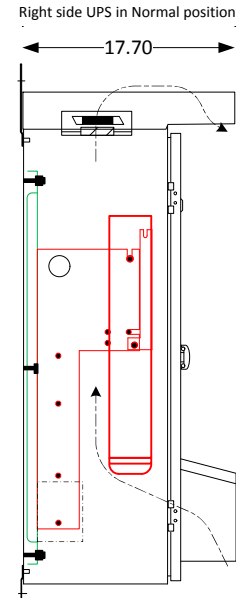
- Full interior Insulation-R7
- Full coverage sunscreen, door drip shields
- 10" ventilation fan- 306 CFM
- Air conditioning- user or application defined BTU and operating voltage
- Mission critical venting-mechanical louvers, H2 sensor and controls (required for Type 4/X, sealed enclosure applications)
- Heater
- Thermostat or timer
- 18-inch leg stands or heavy duty casters

Power Input/Output

- Custom power distribution din rail
- Main power disconnect/circuit breaker
- Terminal blocks for main power input/output and accessory power
- Terminal blocks and relays for dry contact communication
- Convenience receptacles-user specified

Wall-Mount Enclosures

- 4U wall-mount power enclosure
- 6U wall/pole mounted, freestanding convertible enclosure
- Wall-mount brackets
- Insulated cabinet
- Internal UPS mounting plate



Custom Options*

Construction:

- NEMA Type 12, 3/R, 4/X and IP ratings
- User or application-defined dimensions; custom H x W x D
- Carbon, stainless steel (304/316L) and aluminum; user and application-specified gauges
- One, two or multi-door front, or dual access with doors front and rear
- Marine-grade and corrosion resistant coatings
- Fixed-mount equipment installation including large 3P UPS
- DC power systems—chargers and custom battery solutions
- Battery rack-mounting

** All "Standard Options" listed on inside page can be selected as part of a full custom enclosure*



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