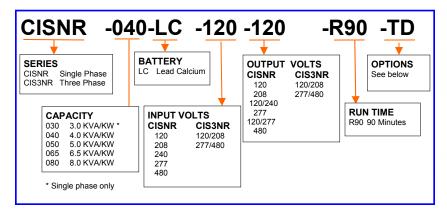


Fixture Type:	
Model Number:	
Project:	

CISNR SERIES NEMA3R INVERTER SYSTEM



ORDERING GUIDE



Features

- · Single cabinet design
- NEMA 3R rated powder coated cabinet
- · Optional stainless steel cabinet offered
- Seismic Zone 4 rating standard
- Temperature controlled forced air cooling
- Pulse Width Modulated inverter design with IGBT technology
- Single- and 3-Phase models offered
- "Off line" operation for increased reliability and efficiency
- No break, 2ms transfer time
- Self-testing/self-diagnostic operation
- 97% efficiency rating at full load
- Harmonic distortion <3% for linear loads
- Load power factor range .5 lead to .5 lag
- Compatible with all HID, electronic ballast and other non-linear technologies
- Backup generator compatible
- Microprocessor controlled, 20 character display with touch pad controls and functions
- User programmable with password protection
- Internal maintenance bypass switch standard
- Summary Form C alarm contacts standard
- RS-232 communications port
- Corbin lock with # 60 key
- 90 minute operation standard
- Maintenance-free lead calcium battery
- 50°F to 104°F (10°C to 40°C) operating range
- Optional convection heater allows operating range of -4°F to 104°F (- 20°C to 40°C)
- UL924 listed



OPTIONS

TD	15-Minute Re-transfer Delay		
OCB	Output Circuit Breaker - See below for details		
AR	Alternate Run Time (Specify Time in Minutes)		
HTR	Thermostatically Controlled Battery Heater		
SNMP	Simple Network Monitoring Protocol		
SSC	Stainless Steel Cabinet		
RMP	Remote Meter Panel		
RAP	Remote Alarm Panel		
EW	Extended Warranty (Includes FS)		
FS	Factory Start-Up (Includes One Additional Year Of		
	Warranty on the electronics portion only)		
MP	Maintenance Program		

OUTPUT CIRCUIT BREAKERS GUIDE

В	Α	20	10	Т
B Norm On N Norm Off	A 120 volts B 208 volts ¹ C 240 volts ¹ D 277 volts E 120/208 volts ² F 277/480 volts ²	Current Rating 10-60 Amps		Optional Trip Alarm

Carpenter Emergency Lighting

Phone: 609-689-3090 Fax: 609-689-3091

2 Marlen Dr., Hamilton, NJ 08691 www.carpenterlighting.com



CISNR SERIES NEMA3R INVERTER SYSTEM

Application

Carpenter's CISNR/CIS3NR Series fast transfer inverter systems feature a weather resistant, NEMA 3R and Seismic Zone 4 rated cabinet for indoor or outdoor applications.

All models are designed to back up critical loads where transfer to emergency mode must be uninterrupted. The CISNR/CIS3NR Series with Pulse Width Modulated design and ultra fast, 2ms switching provides the "no break" performance ideally suited for HID type lighting and other voltage or frequency sensitive loads. Additionally, the system's "off-line" design delivers superior reliability and increased MTBF.

Construction

Cabinet: Freestanding heavy duty NEMA 3R rated steel single cabinet finished in baked-on powder paint providing scratch and corrosion resistance. Cabinet cooling is provided by temperature controlled fans. Optional stainless steel cabinet available on a special order basis

Cooling: Convection in standby mode with forced air during emergency mode.

Access: Front access via two hinged doors with 3-point latch and Corbin 60 locks

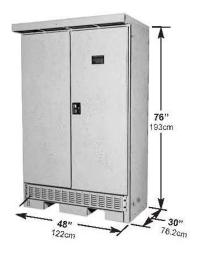
Installation

Mounting: Freestanding cabinet with wall attachment provisions Wiring: Cable entry KOs are located on the sides and bottom of the unit cabinet. All battery cables are provided precut and terminated.

Code Information

UL924 Listed and meets NFPA 101 Life Safety Code, NFPA 70, NFPA 110, UBC, SBCCI, NEC, OSHA, Local and State Codes

Dimensions



Electrical Specifications

Single Phase Input Voltages: 120, 208, 240, 277 2-wire plus ground Three Phase Input Voltages: 120/208, 240/277, 4-wire plus ground

Voltage Range: +10%, -15% Input Frequency: 60Hz ± 3%

Synchronizing Slew Rate: 1 Hz per second nominal

Power Factor: 0.5 lead/lag

Inrush Current: 1.25 times nominal input current. 10 times 1 line cycle for

incandescent loads

Input Protection: Circuit breaker Harmonic Distortion: <10%

Surge Protection: Meets ANSI C62.41 (IEEE 587) and ANSI

C62.42.45 (Cat. A&B) standards

Output

Single Phase Output Voltages: 120 or 277 2-wire plus ground Three Phase Output Voltages: 120/208, 240/277, 4-wire plus ground

Static Voltage Stability: Load current change ± 2%

Dynamic Voltage Stability: $\pm 2\%$ for 25% step load, $\pm 3\%$ for 50% step

Dynamic Recovery Time: 3 Hz

Output Distortion: <3% THD (with linear load) Output Frequency: 60Hz ($\pm .05Hz$ in emergency mode)

Transfer Time: 2 ms

Load Power Factor Range: 0.5 Lead to 0.5 Lag

Output Power Rating: kVA = kW

Overload Protection: 110% continuous, 125% for 12 line cycles

Environmental

Altitude: < 10,000 feet (3,000m) above sea level without derating Operating Temperature Range: 50°F to 104°F (10°C to 40°C),

-4°F to 104°F (-20°C to 40°C) with optional heater Relative Humidity: 95% non-condensing

Batteries and Charger

Charger Type: Fully automatic, microprocessor controlled, temperature

compensating charger Recharge Duty Cycle: 24 hours

Charger Protection: Fused output and automatic low voltage

battery disconnect

Battery: Sealed Lead Calcium (5 year life)

Runtime: 90 minutes standard - based on battery performance at 77°F

(25°C). Other runtimes available, consult factory.

Control Panel

Type: 2x20-character display with touch pad control, five LED function indicators and alarm enunciator with ring back feature.

Communications

Type: RS-232 port (DB9) standard on all models.

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