

COOPER LIGHTING SOLUTIONS - SURE-LITES®

DESCRIPTION

The Sure-Lites Lifeway II Three Phase represents the highest performance in uninterruptible technology while the transistorized inverter is providing power protection. Ready for virtually any emergency with this stand by power system. This pulse width modulated inverter has 2 millisecond transfer time. The AC in to AC out operating efficiency is typically 98%, well above a typical fast transfer inverter. The internal construction of each cabinet consists of an AC to DC battery charger, DC to AC inverter.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Electrical

- Choice of 120/208 VAC or 277/480 VAC, 60 Hz; other voltages available, consult Cooper Lighting Solutions Representative
- Available from 4.8 to 50 kVA
- ThreePhase, WYE or DELTA configurations
- 98% efficiency
- PWM/GBT Technology
- 115% overload capacity
- Sine wave output
- 80db transverse mode noise attenuation
- 120db common mode noise attenuation
- Input circuit breaker
- Battery circuit breaker on 24kVA and up
- Sealed lead calcium batteries standard
- Output distortion <3%THD Linear Load
- Solid-State
- Self Testing and Self-Diagnostic with Event, Test and Alarm Logs (includes 5 minute monthly test and 90 minute annual test)
- RS-232 Communication
- Supports LED and HID Lighting

Housing Construction

- Formed Steel Cabinet and Doors are Finished in a Durable Powder
- Front Access Doors Allow Easy Entry for Servicing
- Acoustically Quiet

Code Compliance

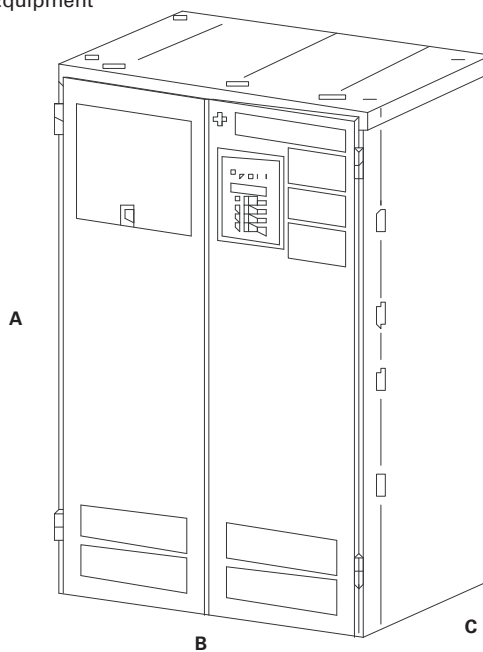
- UL 924 Listed

Application

- HID, Fluorescent and Incandescent Lighting
- Electronic Equipment
- Manufacturing Equipment

Warranty

- Limited Manufacturer's One (1) Year Warranty On All Electronics*
- Limited Manufacturer's Two (2) Year Warranty On All Electronics with Start-Up Service*
- Limited Manufacturer's Battery Warranty: One (1) Year Full Value Warranty/9 Years Pro Rata



Models	Height A	Width B	Depth C
C3FT004 thru 016	47"	30"	25"
C3FT024 thru 050	72"	44"	31"
C3FT024 thru 050**	72"	48"	31"

* Additional Warranty Details Upon Request

** Battery Cabinets

ORDERING INFORMATION

Series	KVA Rating	Voltage Input	Voltage Output
C3FT- Three Phase	004: 4.8 006: 6.0 008: 8.0 010: 10.0 012: 12.5 016: 16.7 024: 24.0 033: 33.0 040: 40.0 050: 50.0	120 277	120 277
Notes: * See Optional Features on back.			



LIFEWAY II THREE PHASE SERIES

4.8 - 50 KVA

HID
FLUORESCENT
INCANDESCENT

Three Phase, UPS

Office Buildings
Industrial Complexes
Military Complexes
Sports Complexes
Prisons
Railway
Transit
Airports
Large 911 Installations
Hospitals
Colleges

SPECIFICATION DATA

Input:		Voltage	120/208 or 277/480VAC 3-phase 4-wire +1% - 15%. (Wye configuration)
		Input Power Walk-In	Limiting inrush current to less than 125%, 10 times for 1 line cycle
		Input Frequency	60Hz, +/-3%, 50Hz available upon request
		Synchronizing Slew Rate	1Hz per second nominal
		Protection	Input Circuit Breaker
		Harmonic Distortion	<10%
		Power Factor	.5 lag/lead
Output:		Voltage	120/208 or 277/480VAC 3-phase 4-wire. (Wye or Delta configuration)
		Static Voltage	Load current change +/-4%, battery discharge +/-4%
		Dynamic Voltage	+/-3% for +/-25% load step change, +/-6% for a 50% load step change, recovery within 3 cycles
		Harmonic Distortion	<3% THD for linear load
		Output Frequency	60Hz +/- .05Hz during emergency mode
		Load Power Factor	.5 lag to .5 lead
		Inverter Overload	115% for 5 minutes
		Protection	Output Circuit Breaker (optional)
Battery:		Type	Valve-regulated sealed lead calcium. Contact factory for additional battery types.
		Charger	Microprocessor controlled for various battery types and temperature compensating (recharge per UL924 spec)
		Protection	Automatic low-battery disconnect; automatic restart upon utility return.
		Disconnect	Fuse-and-Fuse/Circuit Breaker above 24KVA
		Optional Runtimes	Extended runtimes available. Consult factory for additional information
Environmental:		Altitude	<10,000 feet (above sea level) without derating
		Operating Temperature	20 to 30 degrees Celsius
		Storage Temperature	-20 to 70 degrees Celsius (electronics only)
		Relative Humidity	<95% (non-condensing)
General:		Design	Standby UPS. PWM inverter type utilizing IGBT technology with 2ms transfer time.
		Generator Input	Compatible with generators
		Control Input	Microprocessor controlled 2 x 20-character display with touch pad controls & functions
			5 LED indicators & alarm with ring-back feature
		Metering	Input & Output Voltage, Battery Voltage, Battery & Output Current, Output VA, Temperature, Inverter Wattage
		Alarms	High/Low Battery Charger Fault, Near Low Battery, Low Battery, Load Reduction Fault, Output Overload, High/Low AC Input Volts, High Ambient Temperature, Inverter Fault, Output Fault, Optional Circuit Breaker Trip
		Communications	RS-232 port (DB9) Programmable monthly and yearly testing (meets NFPA 101 Life Safety Code requirements)
		Manual Maintenance Bypass	Standard
		Alarm Contacts	Optional Summary Form "C" Contacts
Optional Features:		Auto Dialer, Battery Charger Upgrade, Dimming Bypass Relay, Extended Factory Warranty, External Maintenance Bypass Switch (MBYP), Factory Startup and Training, Fax/Modem, Output Circuit Breakers (OCB), Output Trip Alarms, Remote Meter Panel, Remote Summary Alarm Panel, Seismic Mounting, Summary Alarm Dry Contact, Summary Form C Contacts, and Variable Time Delay.	
Physical:		Cabinet	Freestanding NEMA Type 1
		Cooling	Forced Air during emergency mode
		Cable Entry	Top and side on 4.8KVA - 16.7KVA; side only on 24KVA - 50KVA
		Access	Front

Part #	UPS Electronics Module									Batteries			Battery Module										Tot. Sys. Wt.
	Power Rating (kVA)									Number of Batteries	Voltage (VDC)												
	Power Rating (kW)										Current(Amperes)												
	Efficiency (@ full load)										Run Time (mins)												
	Audible Noise (dBA @ 1m) "										Battery Cabinets												
	Heat Loss (BTU)										Cabinet Dimensions												
										Battery Total Weight lbs/kg													