



Illuminator Series CIII

Emergency Lighting Inverter System

Uninterruptible Power System
3 Phase Systems 4.8kVA to 50kVA

Models
004 thru 016



Models
024 thru 050



STANDARD FEATURES

- 98% efficient
- PWM/IGBT technology
- Micro-processor control
- User programmable with password protection
- UL 924 Listed
- Automatic event and alarm log
- RS232 communications port
- Input circuit breaker
- Modular design
- Low audible noise
- Internal battery circuit breaker/fuse

OPTIONAL FEATURES

- Auto dialer
- External maintenance bypass
- Summary form C contacts
- Modem
- Remote meter panel
- Output circuit breakers
- Extended factory warranty
- Factory startup and training

SPECIFICATIONS

- Input 120/208 or 277/480 VAC 3 phase 4 wire Wye configuration
- Output 120/208 or 277/480 VAC 3 phase Wye or Delta configuration
- Output load power factor .5 lag to .5 lead
- Electronic and magnetic ballast compatible
- Output distortion less than 3% THD for linear loads
- Forced air cooling only during emergency operation, no filters required
- Generator compatibility
- 90 minute runtime standard; other runtimes available upon request

General Specifications effective 7/01/02

Input	Voltage	120/208 or 277/480VAC 3-phase 4-wire +10% -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%
Output	Power Factor	.5 lag/lead
	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
Battery	Load Power Factor	.5 lag to .5 lead
	Inverter Overload	115% for 5 minutes
	Protection	Output Circuit Breaker (optional)
	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.
Environmental	Disconnect	Fuse-and-Fuse/ Circuit Breaker above 24KVA
	Optional Runtimes	Extended runtimes available. Consult factory for additional information.
	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	Stand-By UPS. PWM inverter type utilizing IGBT technology with 2ms transfer time.
	Generator Input	Compatible with generators.
	Control Panel	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
	Warranty	1 year standard warranty includes all parts, labor, & travel expenses within 48 contiguous states. Up to 10 years prorated warranty on batteries. Extended warranties, preventative maintenance and customized service plans are available.
	Factory Start-up	Purchase factory start-up & receive 1 additional year of warranty.
	5 Year Service Plan	Purchase 5 year service plan & receive free factory start-up.
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

UPS Electronics Module

Batteries

Battery Module

Model Number	UPS Electronics Module								Batteries		Battery Module							Tot. Sys. Wt.							
	Power Rating (kVA)		Power Rating (kW)		Efficiency (@ full load)		Audible Noise (dBA @ 1m)		Heat Loss (BTU)		Number of Batteries	Voltage (VDC)		Current (Amperes)		Run Time (mins)			Number of Battery Cabinets						
	Width	Height	Depth	Weight	Width	Height	Depth	Weight	Width	Height		Depth	Weight	Width	Height	Depth	Weight		Width	Height	Depth	Weight			
	in/cm	in/cm	in/cm	lbs/kg	in/cm	in/cm	in/cm	lbs/kg	in/cm	in/cm	in/cm	lbs/kg	in/cm	in/cm	in/cm	lbs/kg	in/cm	in/cm	in/cm	lbs/kg	in/cm	in/cm	in/cm	lbs/kg	
IC3-004	4.8	4.8	97	45	245	30/77	46/117	22/56	440/200	888/403	12	144	39	90	30/77	46/117	22/56	220/100	1	1548/703					
IC3-006	6.0	6.0	97	45	300	30/77	46/117	22/56	440/200	1110/504	15	180	39	90	30/77	46/117	22/56	220/100	1	1770/804					
IC3-008	8.0	8.0	97	45	400	30/77	46/117	22/56	440/200	1480/672	20	240	39	90	30/77	46/117	22/56	440/200	2	2360/1072					
IC3-010	10.0	10.0	97	45	500	30/77	46/117	22/56	520/237	1776/806	24	144	81	90	30/77	46/117	22/56	440/200	2	2736/1243					
IC3-012	12.5	12.5	97	45	660	30/77	46/117	22/56	520/237	2220/1007	30	180	81	90	30/77	46/117	22/56	440/200	2	3180/1444					
IC3-016	16.7	16.7	97	45	840	30/77	46/117	22/56	520/237	2960/1343	40	240	81	90	30/77	46/117	22/56	660/300	3	4140/1880					
IC3-024	24.0	24.0	97	45	1200	44/112	72/183	31/79	665/302	4500/2046	60	240	117	90	48/122	72/183	31/79	1460/665	2	6165/2803					
IC3-033	33.0	33.0	97	45	1500	44/112	72/183	31/79	775/352	6000/2728	40	240	160	90	48/122	72/183	31/79	1460/665	2	7775/3535					
IC3-040	40.0	40.0	97	45	1980	44/112	72/183	31/79	855/389	7500/3410	100	240	194	90	48/122	72/183	31/79	2190/997	3	9855/4481					
IC3-050	50.0	50.0	97	45	2520	44/112	72/183	31/79	975/443	9000/4091	60	240	243	90	48/122	72/183	31/79	2190/997	3	11475/5216					



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