FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

COBRA 1

4.7 KW - 21 KW

Single Phase

Stand-By Emergency Lighting and Power Systems

SPECIFICATIONS

The Cobra 1 maintains efficient AC Emergency Power to operate all emergency lighting fixtures at "full-light" output, after the transfer is complete, providing superior dependability and security to commercial/industrial environments in a small footprint.

POWER RATING

- 4.7 KW - 21 KW (or 4,700 Watts - 21,000 Watts) single phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features

INPUT

- 120V, 208V, 240V, 277V or 480V input 60Hz

OUTPUT

- 120V, 240V, 277V, 480V, 120/240 or 120/277VAC Stand-by design is ≥99% efficient at 100% linear load
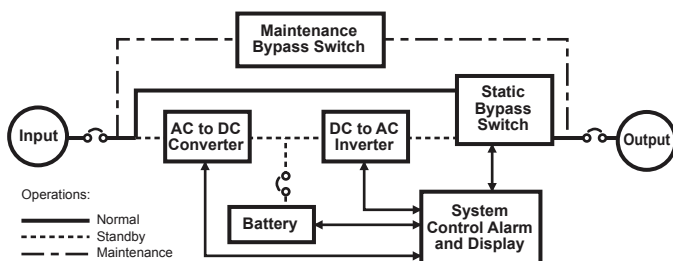
BATTERIES

- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- *DSP/PWM Smart Battery Monitoring System* is **TEMPERATURE COMPENSATED** maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

LAMPS AND LOADS

- Emergency power provides **FULL LIGHT OUTPUT** from all lamps and fixtures for the entire runtime
- Operates fluorescent, compact fluorescent, incandescent, quartz, LED and other lamp types
- Standard or electronic ballasts, dimming devices or panels, sensors and most control equipment
- Standard or LED Exits and other safety equipment

CODES

- UL 924, UL 1778, meets NFPA 101, NFPA 70, NEC and OSHA standards
- Cities of Chicago and New York approved
- Complies with the Buy American Act

Operations:
— Normal
---- Standby
– – Maintenance
(Block diagram: Input, AC to DC Converter, DC to AC Inverter, Maintenance Bypass Switch, Static Bypass Switch, Output, Battery, System Control Alarm and Display)

PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM technology and Envoy *Watchdog Software* to protect system performance and reliability
- Transfer in 16msec - 60msec

DIAGNOSTICS AND MAINTENANCE

- DSP/PWM technology and Envoy *Watchdog Software* provides complete self diagnostic capabilities and LED Monitoring
- Informative advanced Display and Alarms keep you in control of your emergency lighting environment 24/7
- Automatically performs periodic self-tests ensuring a safely lighted environment *prior* to an emergency
- Single point of testing instead of multiple testing points with battery packs

CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- Systems up to 14 KW are self contained; larger systems require external battery cabinet(s)

INSTALLATION

- Modular design and small footprint allow easy installation in electrical closet or other convenient locations
- Phone assisted factory start-up standard for all systems
- Extended warranty available

SPECIAL APPLICATIONS

- Envoy offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM - Environmental Circuit Module allows fixtures and lamps on the emergency circuit(s) to be operated by normal switching and/or dimming devices in NON-emergency conditions
- Dimming Panel Interface allows use with emergency lights controlled by common dimmer panel

WARRANTY

- 1-Year full warranty on system electronics
- Battery warranty 1-year with 9-years pro-rated
- System 1-year on-site warranty labor with Envoy phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

Cobra 1 Series	Power Rating	UPS Cabinet Dimensions			Battery Cabinet Dimensions			Weight (com-bined)	British Thermal Unit	Battery Type	Voltage (VAC)		Output Protection	Safety Approvals
	KVA/KW	W	H	D	W	H	D	(lbs)	BTU's		Input	Output		
CO1	4.7	42"	71"	22.5"	not required			1200	159.8	Sealed, Maintenance free (AGM) lead calcium	*Select* 120, 208, 240, 277 or 480	*Select* 120, 277, 480, 120/240 or 120/277	Input and output circuit breakers standard	UL924 UL1778 NFPA 101 NFPA 70 NEC
	5.25	42"	71"	22.5"	not required			1200	178.5					
	7.0	42"	71"	22.5"	not required			1450	238					
	8.0	42"	71"	22.5"	not required			1450	272					
	10.0	42"	71"	22.5"	not required			1820	340					
	12.0	42"	71"	22.5"	not required			2210	408					
	14.0	42"	71"	22.5"	not required			2550	476					
	18.0	42"	71"	22.5"	42"	71"	22.5"	3750	612					
	21.0	42"	71"	22.5"	42"	71"	22.5"	4375	714					

The Cobra 1 provides the simplicity and reliability that is critical when providing an alternative source of power to any environment. Easy installation ..."simplicity"...connect the CO1 to the emergency circuit(s) and everything is backed up..."reliability"...during a power outage. All lighting connected to the CO1 will simply continue to operate at "**full light output**" once the transfer is complete. Envoy Watchdog© software keeps your environment safe while self-diagnostics help maintain equipment to a high standard. Superior surge suppression assures the highest quality of power being delivered to all loads, all the time.

We sincerely hope you never experience a real emergency, but if you do,
you deserve the **security**, **safety** and **peace of mind** that the Cobra 1 from **Envoy** ensures.

ORDERING INFORMATION

Choose the bold face catalog nomenclature that best suites your needs.
Write them on the appropriate line. Order accessories as separate catalog number.

Example:
CO1 - 8.0 - 120/277 - ECM277/3 OCB/277/3/20/1

Description of example:
(8.0 KW, 120 Voltage In, 277 Voltage Out, 3 277V Environmental Control Modules, 3 Output 277 Voltage Circuit Breakers at 20amps, 2 pole)

CO1

FAMILY	POWER RATING	VOLTAGE [1]	OPTIONS	TIME [3]

POWER RATING:
KW
4.7
5.25
7.0
8.0
10.0
12.0
14.0
18.0
21.0

VOLTAGE:
Input/Output
120/120
120/277
120/480
120/120-240
120/120-277
208/120
208/277
208/480
208/120-240
208/120-277
240/120
240/277
240/480

Input/Output
240/120-240
240/120-277
277/120
277/277
277/480
277/120-240
277/120-277
480/120
480/277
480/480
480/120-240
480/120-277

OPTIONS:
ECM120 - 120V Environmental control module[2]/qty
ECM277 - 277V Environmental control module[2]/qty
NOF - Normally OFF output circuit/voltage/qty/pole
NOH - Normally OFF "Hold ON"/voltage/qty/pole
OCB - Output circuit breakers/voltage/quantity/amps/pole
EPO - Emergency power off
RSSP - Remote Indicator Panel
SNMP - SNMP Card
FC - Form C Contacts
SRB - Seismic rated bracket
STU1 - Onsite start-up
IDB - Internal dimmer bypass
EMB - External maintenance bypass switch
EW - Extended warranty
FT - Fast transfer

TIME:
Minutes
5
10
15
20
25
30
45
60
90 **(Standard)**
120
180
240

<u>NOTES:</u>
1-Consult factory for other voltage requirements.
   Special voltages may effect the weight, size and number or cabinets.
2-One ECM is used per switching device or circuit.
3-Consult factory for other run times.

Specifications subject to change without notice.