ORDERING GUIDE

Example Model Number:
1-CR-4-5-BA2007-F-T-S-2YW

2 — VOLTAGE INPUT/OUTPUT [1]
- **1** - 120 - 120
- **2** - 120 - 120/277
- **3** - 208 - 120
- **4** - 240 - 120
- **5** - 277 - 120
- **6** - 277 - 277
- **7** - 277 - 277/120
- **Z** - Other Voltages[3]

CR — SYSTEM TYPE
- **CR** - Illuminator CR

5 — KVA / KW [2]
- **3** - 3.0
- **4** - 4.0
- **5** - 5.0
- **6** - 6.5
- **7** - 8.0

G — BATTERY TYPE
- **S** - Standard (VRLA)
- **G** - Long Life (10-YR)

RUNTIME[4]
(Other Than 90 Minutes)
R120 - 120 Minutes

B A 20 6
B D 20 6
1

OUTPUT BREAKERS[5, 6]
EXAMPLE
B A 20 07
- Output: **B** - Normally On; **N** - Normally Off
- Pole: **A** - 120, 1-Pole; **B** - 208, 2-Pole; **C** - 240, 2-Pole; **D** - 277, 1-Pole
- Amp Rating (Distribution Breakers): **10, 16, 20, 25, 32, 40, 50, 63**
- QTY: **01-14[6]**

OPTIONS
- **A** - Remote Summary Alarm Panel
- **C** - Status Monitoring Dry Form C Contacts
- **F** - Fast Charge (12-hr)
- **H** - Heater (Battery)
- **I** - Inverter on Dry Form C Contacts
- **O** - Output Transfer Delay (Factory set at 3 seconds; adjustable 0-7.5 seconds)
- **P** - Remote Status Panel (Status Alarms, Requires C Option)
- **R** - Remote Meter Panel
- **SEA** - Serial to Ethernet Adapter
- **SS** - Stainless Steel Cabinet
- **T** - Output Trip (Supervised) Alarm[7]
- **V** - Variable Time Delay 15 Minutes (Requires Normally Off Circuit)

Pick 1
- **BAC** - BACnet Communications (MSTP)
- **BIP** - BACnet IP
- **IOT** - IoT Inverter Connect Cloud Software
- **MIP** - Modbus TCP/IP
- **MOD** - Modbus RTU

5YT TR

WARRANTY[7]
- **2YW** - Start Up & Same Day Training
- **2YWT** - Start Up, Same Day Training and Full Run Test
- **5YP** - 5-Year Preventative Maintenance Plan
- **5YW** - 5-Year Extended Electronics Warranty
- **TR** - Training If Required On Day Other Than Start Up

1. Only single phase voltages available.
2. KVA= KW
3. Requires external NEMA 3R transformer cabinet.
4. Standard battery run time is 90 minutes. Optional 120-minute run time is not available on 8.0 kVA system.
5. Normally off load systems cannot exceed 20% of total kVA rating with any combination of HID loads.
6. Maximum output breakers available: 14 unsupervised (1-pole), 8 supervised (1-pole). A 2-pole breaker occupies 2 positions, and a 3-pole breaker occupies 3 positions. Breakers provided are 20 Amps unless specified otherwise. List all breaker requirements separately -- ex: BA2007-NA1001.
7. One-year warranty is standard.

□ = Required feature for part number.
▨ = Optional feature. Not required for part number. Contact factory.

DIMENSIONS

Model Reference	Electronics Module: Power Rating (kW / kVA)	# of Phases	Efficiency @ Full Load (Typical)	Audible Noise (dBA @ 1m)	Heat Loss (BTU)	Cabinet Dimensions Width in/cm	Height in/cm	Depth in/cm	Weight lbs/kg	Batteries: Weight lbs/kg	Number of Batteries	Voltage (VDC)	Current (Amperes)	Run Time (mins)
CR-3	3.0	1	98	45	255	54/137	76/193	30/76	805/365	740/335	10	120	37	90
CR-4	4.0	1	98	45	340	54/137	76/193	30/76	805/365	888/403	12	144	40	90
CR-5	5.0	1	98	45	408	54/137	76/193	30/76	805/365	1184/538	15	180	40	90
CR-6	6.5	1	98	45	544	54/137	76/193	30/76	805/365	1480/672	20	240	39	90
CR-7	8.0	1	98	45	680	54/137	76/193	30/76	805/365	1776/806	24	144	82	90

MYERS
EMERGENCY POWER SYSTEMS

Illuminator CR
Outdoor-Rated Emergency Lighting Inverter System

Single Phase Systems 3KVA/KW to 8KVA/KW

SEE E401 FOR EQUIPMENT LOCATION

STANDARD FEATURES
- UL 924 Listed for Operating Temperatures 10° to 40°C (50° to 104°F)
- NEMA 3R Enclosure with Extra Variable Speed Temperature Controlled Fans for Forced Air Cooling.
- White, Exterior Grade, Baked Powder Coat Painted Steel Enclosure
- Conformal Coat all Printed Circuit Boards
- Maintenance Bypass (Internal) - **Make Before Break**
- Summary Dry Form C Contacts
- Seismic Bracing
- CORBIN - Corbin CAT60 Locks; 3-Point Lock

OPTIONAL FEATURES
- Enhanced Communications
  - Expanded Building Management Protocols
  - BACnet or Modbus Communications Interface
  - **NEW IoT Connect Cloud Software**
- Remote Meter Panel
- Output Circuit Breakers
- Extended Factory Warranty
- Factory Startup and Training
- Normally Off Output
- Output Trip Alarms
- Stainless Steel Cabinet
- Microprocessor-Controlled Convection Heater

SPECIFICATIONS
- Output Load Power Factor .5 Lag to .5 Lead
- Output Distortion Less Than 3% THD for Linear Loads
- Generator Compatibility
- 90 Minute Runtime Standard
- Compatible with Electronic and Magnetic Ballasts and LED Drivers
- Custom Voltages Available: 1-Phase Input 120V or 277V 2W+ Ground
- Output Load Power Factor .5 Lead to .5 Lag
- Temperature Controlled Forced Air Cooling, No Filters Required

EM INVERTER 2 / E201
SCALE: NONE

PANEL NUMBER EML1 (120VAC) VOLTAGE 120 PHASE 1 WIRE 3
SOURCE INVERTER (PNL V CIRCUIT 1) 1 A.I.C. 10,000 1
PANEL LOCATION VOLLEY BALL ELECTRICAL PAD BUS AMPERE RATING 100
■ NEMA 3R ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER PER MFG.
■ SURFACE MOUNTING

L.C.L.	MISC	RCPT	LITE	CIRCUIT DESCRIPTION	LOAD (VA) A	BRKR POLE	BRKR AMP	CKT	PHASE A	CKT	BRKR AMP	BRKR POLE	LOAD (VA) A	CIRCUIT DESCRIPTION	MISC	RCPT	LITE	L.C.L.
				SPARE	·	1	20	1		2	20	1	100	AL1C (EM)				
				1				3		4			·	SPARE				
					·			5		6			·					
				TOTALS	·								100	TOTALS				

L.C.L. VOLT AMPS: . PHASE A .
TOTAL VOLT AMPS: 100 PHASE A 100 1
TOTAL AMPS: .8 PHASE A .8

1

PANEL NUMBER EML1 (277VAC) VOLTAGE 277 PHASE 1 WIRE 3
SOURCE INVERTER (PNL V-1) A.I.C. 10,000
PANEL LOCATION VOLLEY BALL ELECTRICAL PAD BUS AMPERE RATING 100
■ NEMA 3R ■ COPPER BUSS
■ MAIN CIRCUIT BREAKER PER MFG.
■ SURFACE MOUNTING

L.C.L.	MISC	RCPT	LITE	CIRCUIT DESCRIPTION	LOAD (VA) A	BRKR POLE	BRKR AMP	CKT	PHASE A	CKT	BRKR AMP	BRKR POLE	LOAD (VA) A	CIRCUIT DESCRIPTION	MISC	RCPT	LITE	L.C.L.
				POLE LIGHTS	550	1	20	1		2	20	1	·	SPARE				
				POLE LIGHTS	550			3		4			·	SPARE				
				POLE LIGHTS	550			5		6			·	SPARE				
				TOTALS	1650								·	TOTALS				

L.C.L. VOLT AMPS: . PHASE A .
TOTAL VOLT AMPS: 1650 PHASE A 1650
TOTAL AMPS: 6 PHASE A 6

1

PANEL SCHEDULE EML1 INVERTER 3 / E201
SCALE: NONE

NEW PANEL

PANEL NUMBER V VOLTAGE 120/240 PHASE 1 WIRE 3
SOURCE T1 A.I.C. 10,000
PANEL LOCATION VOLLEYBALL BUS AMPERE RATING 200
■ NEMA 3R ■ ALUMINUM BUSS
■ MAIN CIRCUIT BREAKER 150
■ SURFACE MOUNTING

L.C.L.	MISC	RCPT	LITE	CIRCUIT DESCRIPTION	LOAD (VA) A	LOAD (VA) B	BRKR POLE	BRKR AMP	CKT	PHASE A B	CKT	BRKR AMP	BRKR POLE	LOAD (VA) A	LOAD (VA) B	CIRCUIT DESCRIPTION	MISC	RCPT	LITE	L.C.L.
				EML1 (EM)	3500		1	70	1		2	20	1	·		SPARE				
				RECEPTACLE		180	1	20	3		4	20	1		120	CONTROL POWER				
				SPARE	·		1	20	5		6	20	1	·		SPARE				
				RECEPTACLE		180	1	20	7		8	20	1		180	RECEPTACLE				
				SPARE	·		1	20	9		10	20	1	·		SPARE				
				RECEPTACLE		180	1	20	11		12	20	1		180	RECEPTACLE				
				SPARE	·		1	20	13		14	30		·		SPARE				
				RECEPTACLE		180	1	20	15		16		2		·					
				SPARE	·		1	20	17		18	30		·						
				RECEPTACLE		180	1	20	19		20		2		·					
				SPARE	·		1	20	21		22	20	1	·						
				RECEPTACLE		180	1	20	23		24	20	1		·					
				RECEPTACLE	180		1	20	25		26	20	1	300		IDF POWER				
				RECEPTACLE		180	1	20	27		28	20	1		180	RECEPTACLE				
				RECEPTACLE	180		1	20	29		30	20	1	180		RECEPTACLE				
				TOTALS	3860	1260								480	660	TOTALS				

L.C.L. VOLT AMPS: . PHASE A . PHASE B . .
TOTAL VOLT AMPS: 6260 PHASE A 4340 PHASE B 1920 .
TOTAL AMPS: 26 PHASE A 36 PHASE B 16 .

PANEL SCHEDULE 'V' 1 / E201
SCALE: NONE

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DSA SUBMITTAL

REGISTERED PROFESSIONAL ENGINEER KENNETH W. LUCCI No. E-8349 Exp. 09/30/2024 ELECTRICAL STATE OF CALIFORNIA

REV.
1 ADDENDUM 1 6/9/23

MOORPARK COLLEGE
BEACH VOLLEYBALL COURTS
MOORPARK, CA

DESIGNED:	KL
DATE:	APRIL 4, 2023
DRAWN:	LK / DS
PROJ.	22-537
SCALE:	AS NOTED

SHEET TITLE
ELECTRICAL PANEL SCHEDULE AND EM INVERTER

DWG. NO.
E201

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