E3MAX-2P

8,500-13,300 VA Two Phase Modular AC Inverter

DATE:

PROJECT

COMMENTS:

FEATURES

- Optional Web-based Monitoring Platform – easily view, interact with, download and manage records as needed on any PC or mobile device
- Programmable and password protected user interface
- 98% efficient for minimal BTU losses
- PWM Inverter provides pure sine wave output with less than 3% THD
- Crest factor >4 overload protection for demanding high in-rush loads
- Programmable transfer time – select between standard and fast transfer times for load and site compatibility
- UL listed 90 minute run-time
- Compatible with all lighting loads, including HID
- Variable time delay
- Battery recharges in less than 24 hours
- Two Phase output
- Start-Up Diagnostics checks for proper installation

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ORDERING INFORMATION *E3MAX-8500-2P-LC-IA-OA-C##-O##-S##*

1. SERIES	2. VA RATING	3. PHASE	4. BATTERY TYPE	5. INPUT VOLTAGE	6. OUTPUT VOLTAGE
E3MAX -	-	2P -	LC -	-	-
	8500 8500 VA Split Phase **10500** 10500 VA Split Phase **13300** 13300 VA Split Phase	**2P** Two Phase	**LC** Lead Calcium	**IC** 120V/120V/208V **IE** 277V/277V/480V	**OC** 120V/120V/208V **OE** 277V/277V/480V

7. OUTPUT BREAKER - NORMALLY ON*	8. OUTPUT BREAKER - NORMALLY OFF*	9. OUTPUT BREAKER - SWITCHED*
-	-	-
C* * Normally On Breakers	**O*** * Normally Off Breakers	**S*** * Switched Breakers

SEE BREAKER CONFIGURATION TABLE ON PAGE 3 FOR MAXIMUM BREAKERS

10. OPTIONS

BLANK = NO OPTION

MB	Maintenance Bypass Switch	**EEW**	Extended Electronics Warranty	**BI**	BMS Integration
CB	Custom Breaker	**TA**	Trip Alarm with Breaker	**BTMS**	Battery Thermal Management System
DT	Delayed Transfer	**RA**	Remote Annunciator (Not Included with TB)	**EO**	Emergency Power Off
EBW20	Extended Battery Warranty	**TB**	Programmable Terminal Block (Not Included with RA)	**WEB**	Web Monitoring Connection[1]

NOTE

Maximum number of OUTPUT breakers supported depends on sizing and option selection. Contact factory for specific details.

ORDERING NOTES

1. In order to use the web-based monitoring available at **Isolite.com**, the -WEB option must be selected.

ACCESSORIES ON NEXT PAGE

SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.
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ACCESSORIES; ORDER SEPARATELY

- **E3MAX-MP#** = Maintenance Plan plus number of years (#)

SPECIFICATIONS

OPTIONAL FEATURES

- Maintenance bypass switch
- Circuit breakers – supervised or unsupervised
- Maintenance contract/plan
- Remote Annunciator
- Factory startup – increases electronics warranty to 3 years
- Seismic Zone 4 – OSHPD approval, available July 2017
- Circuit breaker protected loads (Switched, Normally On, and Normally Off)
- Fault summary alarm and 2 programmable alarms – Form C dry contacts
- Keyed lockable enclosure

FRONT PANEL

- Modern 4x20 LCD character display with white LED back-light
- Heads-up diagnostic LEDs include 5 status (AC present, battery charging, inverter power, system ready, switched load energized), fault summary LED, and 5 specific faults (unit in bypass, circuit breaker trip, startup fault, charger fault, inverter fault)
- Dedicated System Test button – initiates 30-second test with UL compliant diagnostics
- 5-button keypad for menu navigation
- Sonic alarm with dedicated enable/disable pushbutton with heads-up LED. Alarm silence has 24-hour ring-back for alarm reminder
- SD memory card – download and store all events, tests, and alarm logs (password protected)
- USB connector – access to all event, tests, and alarm logs (password protected)
- Ethernet – 10 BASE-T, TCP/IP web serving

BATTERY

- Front access VRLA batteries with 10-Year pro-rated warranty

TEMPERATURE RATING

- From 68°F to 86°F

  Battery service life will be negatively impacted at ambient temperatures above 77°F

MAINTENANCE PLAN

- Once per year the manufacturer's technician shall visit the site to perform maintenance and software upgrades as needed. Maintenance shall include battery voltage checks, torque setting verification, cleaning, and a thorough visual inspection. All electronics warranties shall be extended to the duration of the Maintenance Plan. Maintenance Plans can be purchased for a duration of 1 year to 5 years.

APPROVALS

- UL 924
- OSHPD Seismic Certified (with Z4 option)
- New York City Approved, Calendar Number 51575
- NFPA101 Life Safety Code
- NFPA70-NEC
- OSHA
- NEMA Type 1 enclosure

BMS INTEGRATION

- BACNet IP
- BACNet MS/TP
- Modbus TCP
- Modbus RTU

WARRANTY

- Isolite warrants the E3MAX series electronics assembly against defects in material and workmanship for a period of 2 years, or 3 years with factory startup option. Extended Warranty options available
- Isolite warrants the E3MAX series lead calcium batteries for a 1-year full and 9-year pro-rated limited warranty
- For further details, refer to General Warranty and Obligations in the Isolite manual or on our website
- The EEW option extends the electronics warranty to 5 years. Batteries are not included in the extended warranty.

NOTES

- Due to power factor calculations, we recommend only loading the E3MAX inverter to 90% of load wattage
- Max power for any phase (L-N, L-L) is 1/3 of total power capacity
- For Single Phase, Split Phase, or Three Phase, see E3MAX-1P, E3MAX-SP, or E3MAX-3P

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MAXIMUM BREAKERS								
Phase	# of Breakers Normally On	# of Breakers Normally On with TA	# of Breaker Normally On with MB	# of Breaker Normally On with EO	# of Breakers Normally On with TA + MB	# of Breakers Normally On with TA + EO	# of Breakers Normally On with MB + EO	# of Breakers Normally On with TA + MB + EO
Two-Phase (2P)	36	24	34	34	22	22	32	20

WEIGHT & DIMENSIONS									
Phase	Power Rating (kW)	# of Cabinets	Width (in)	Height (in)	Depth (in)	Inverter Cabinet Weight (lbs)	Battery Cabinet Weight (lbs)	Shipping Weight (lbs)	# of Batteries
Two-Phase (2P)	8.5 kW	2	53	77	25	630	1600	2265	16
	10.5 kW	2	53	77	25	750	1900	2685	20
	13.3 kW	2	53	77	25	750	2336	3086	16

ELECTRICAL DATA						
Model	Power Rating (kW)	Minimum Feed Breaker		Suggested Feed Breaker		Full Load BTU/Hr
		Input Voltage IC	Input Voltage IE	Input Voltage IC	Input Voltage IE	
E3MAX-8500-2P	8.5 kW	66.4 A	28.8 A	70 A	30 A	580
E3MAX-10500-2P	10.5 kW	82 A	35.5 A	90 A	40 A	716
E3MAX-13300-2P	13.3 kW	103.9 A	45 A	110 A	50 A	907

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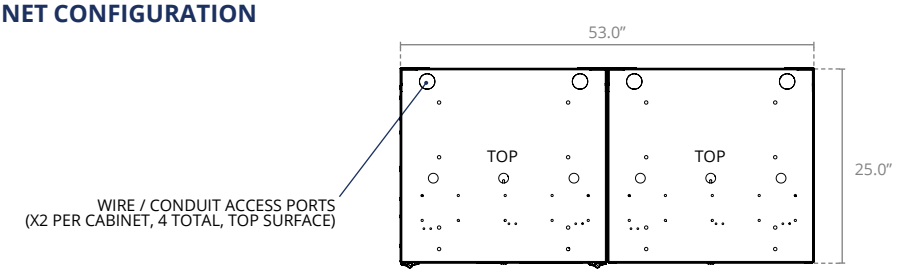
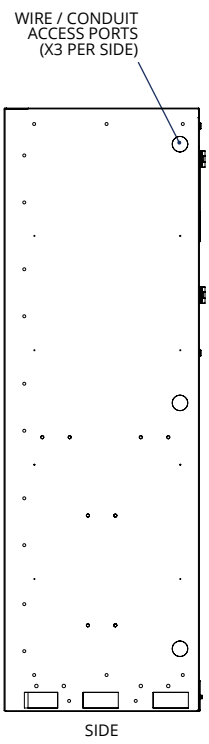
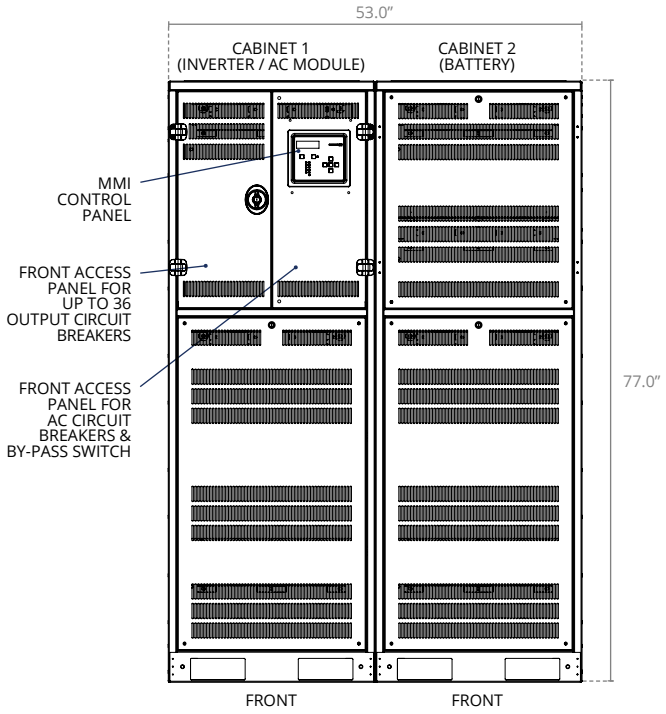
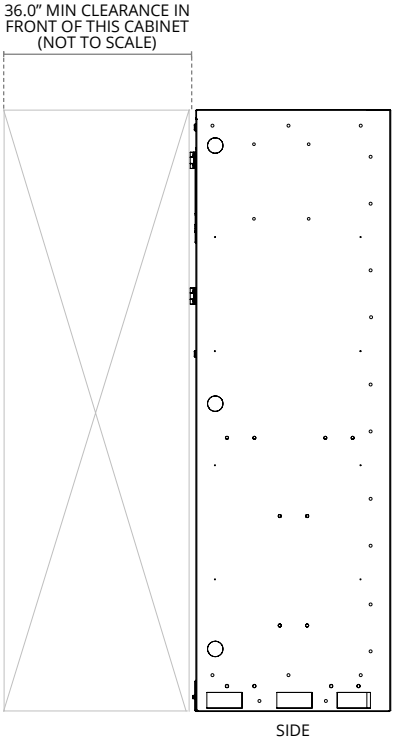
DIAGRAMS

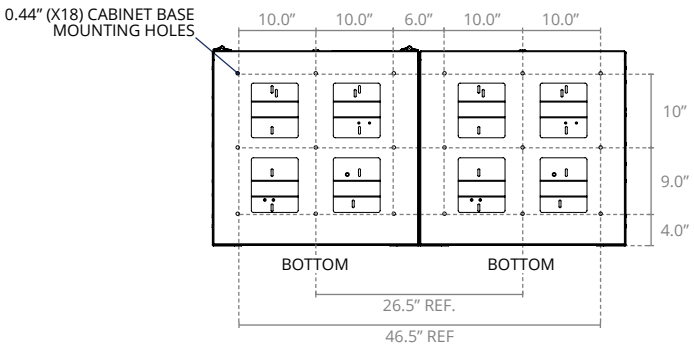
2 CABINET CONFIGURATION

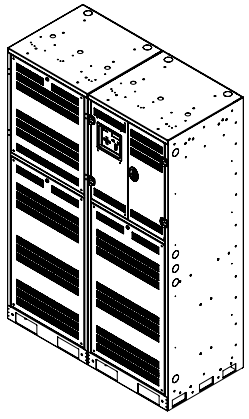












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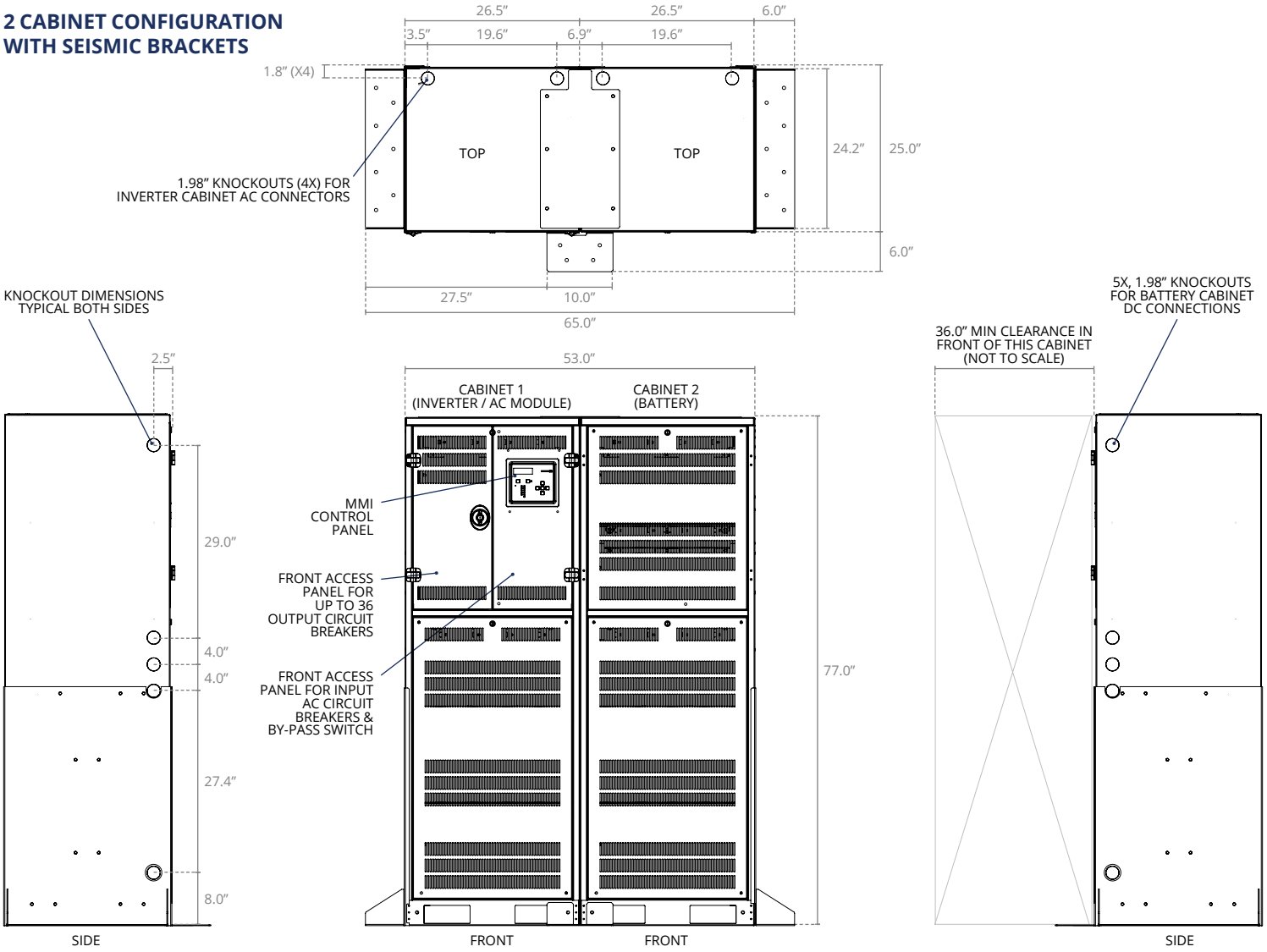
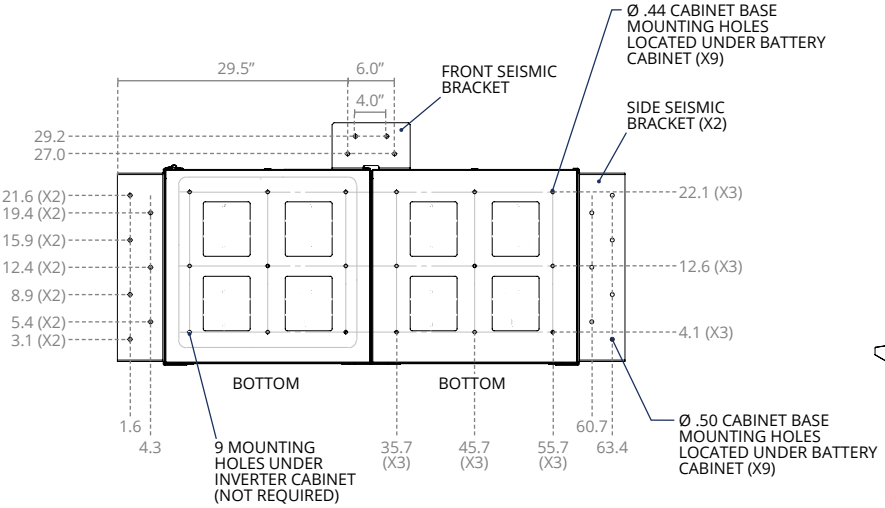
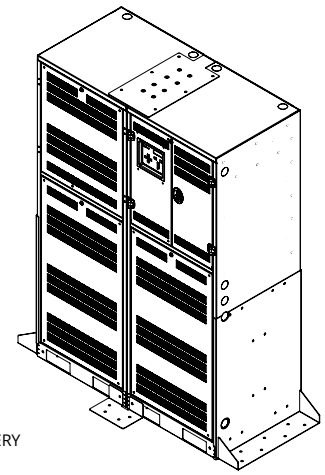
DIAGRAMS (CONTINUED)

2 CABINET CONFIGURATION WITH SEISMIC BRACKETS







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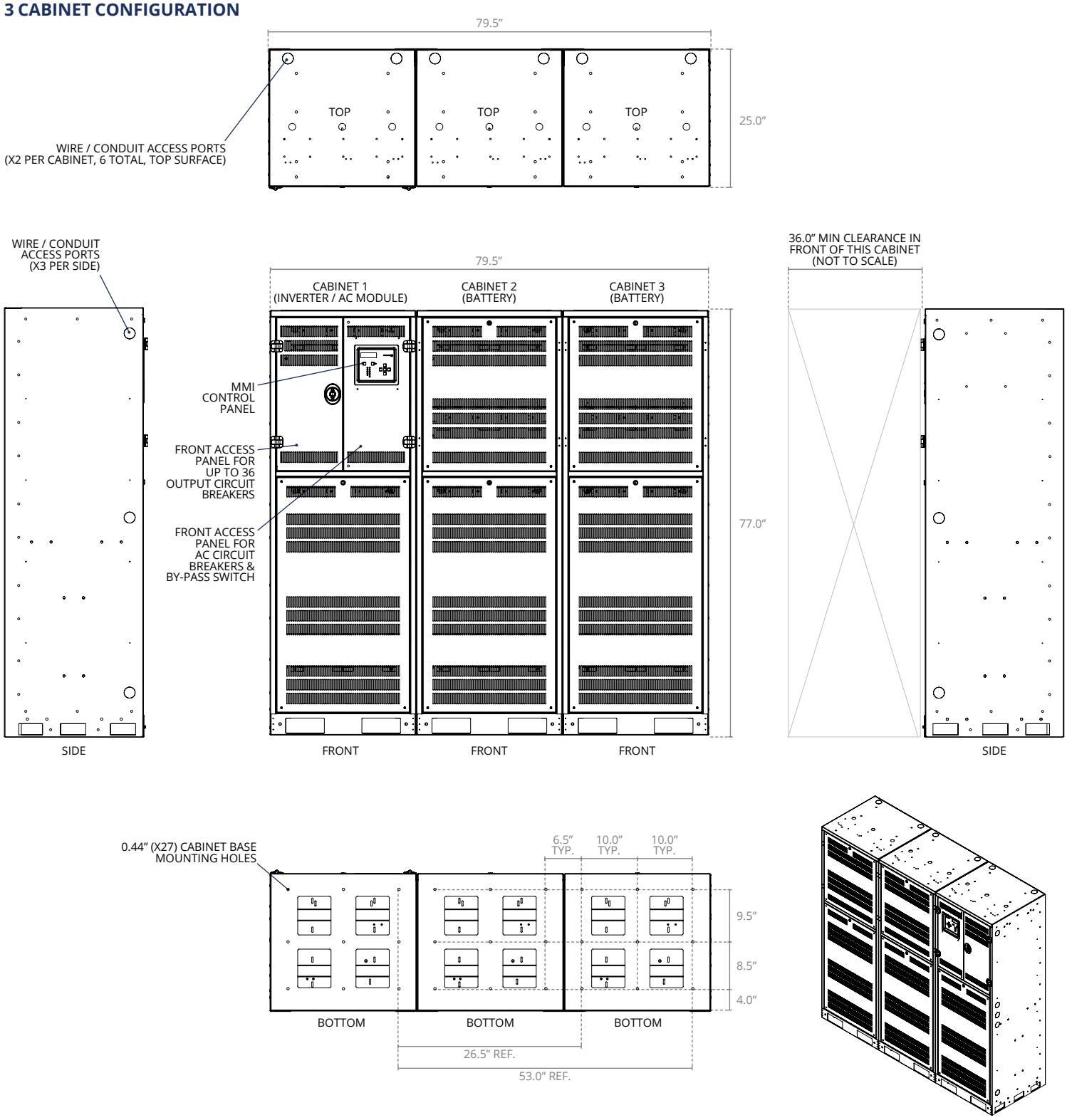
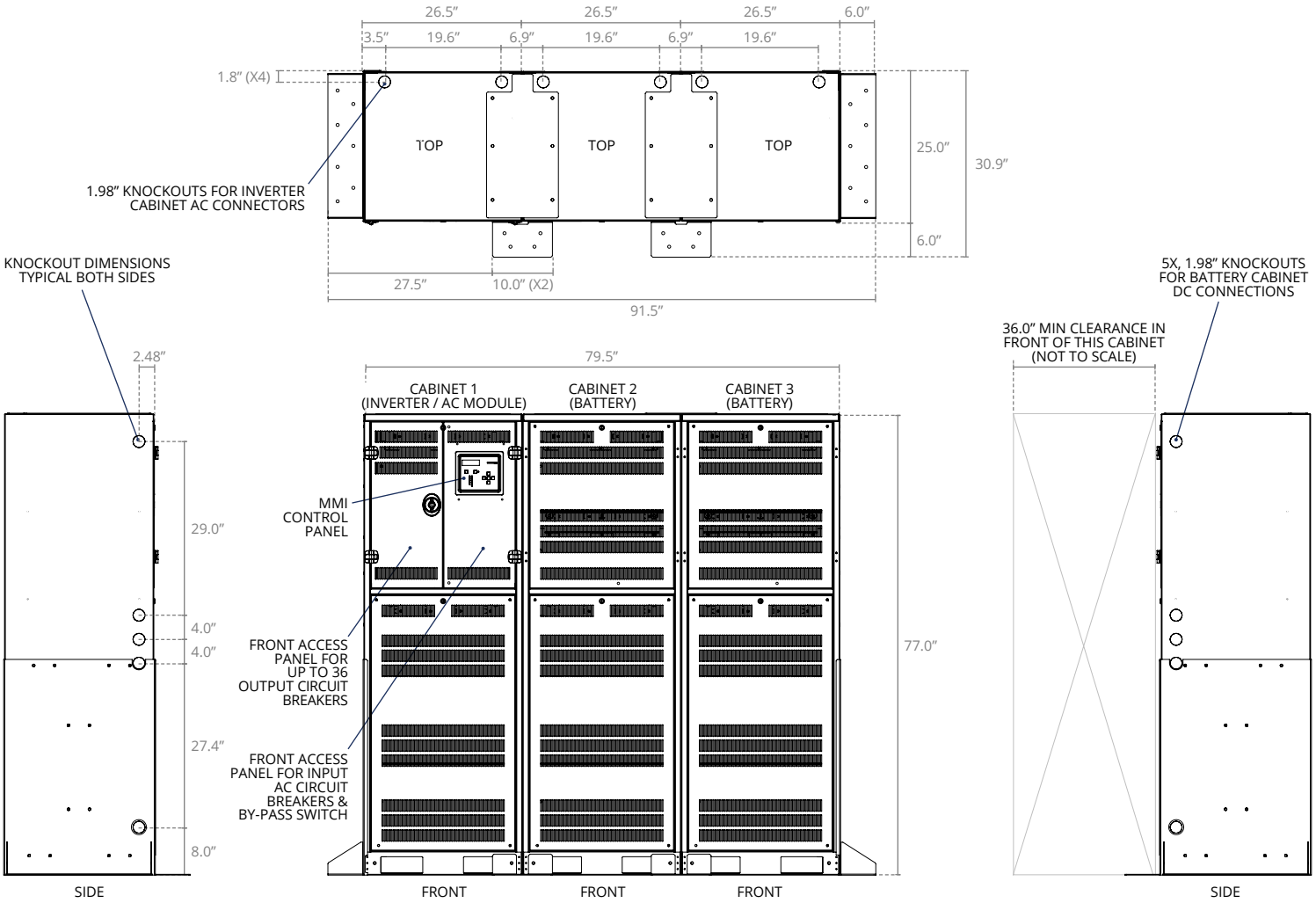
DIAGRAMS (CONTINUED)

3 CABINET CONFIGURATION



DIAGRAMS (CONTINUED)

3 CABINET CONFIGURATION WITH SEISMIC BRACKETS



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BMS INTERFACE POINTS LIST

POINT NAME	BACNET OBJECT TYPE	BACNET OBJECT ID	MODBUS REGISTER
Inverter	BI	1	10001
Charger	BI	2	10002
AC Present	BI	3	10003
Ready	BI	4	10004
Switched Load	BI	5	10005
Alarm Summary	BI	6	10006
Bypass	BI	7	10007
Circuit Breaker Tip	BI	8	10008
Startup Fault	BI	9	10009
Charger Fault	BI	10	100010
Inverter Fault	BI	11	100011
Input Voltage (Phase A)	AI	1	30001/30002 (FLOAT)
Input Voltage (Phase B)	AI	2	30003/30004 (FLOAT)
Input Voltage (Phase C)	AI	3	30005/30006 (FLOAT)
Output Voltage (Phase A)	AI	4	30007/30008 (FLOAT)
Output Voltage (Phase B)	AI	5	30009/30010 (FLOAT)
Output Voltage (Phase C)	AI	6	30011/30012 (FLOAT)
Output Current (Phase A)	AI	7	30013/30014 (FLOAT)
Output Current (Phase B)	AI	8	30015/30016 (FLOAT)
Output Current (Phase C)	AI	9	30017/30018 (FLOAT)
Battery Voltage	AI	10	30019/30020 (FLOAT)
Battery Current	AI	11	30021/30022 (FLOAT)
Temperature	AI	12	30023/30024 (FLOAT)
Output VA (Phase A)	AI	13	30101/30102 (UINT32)
Output VA (Phase B)	AI	14	30103/30104 (UINT32)
Output VA (Phase C)	AI	15	30105/30106 (UINT32)
Battery Power	AI	16	30107/30108 (UINT32)
System Runtime (Days)	AI	17	30109/30110 (UINT32)
Inverter Runtime (Minutes)	AI	18	30111/30112 (UINT32)
Inverter Runtime (Seconds)	AI	19	30113/3014 (UINT32)
System Events	AI	20	30115/30116 (UINT32)