

E3MAX-1P

13,300-17,000 VA Single Phase Modular AC Inverter

DATE:	COMMENTS:
PROJECT:	



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
- Single phase output
- Start-Up Diagnostics checks for proper installation



ORDERING INFORMATION *E3MAX-13300-1P-LC-IB-OB-C##-O##-S##*

1. SERIES	2. VA RATING	3. PHASE	4. BATTERY TYPE	5. INPUT VOLTAGE	6. OUTPUT VOLTAGE
E3MAX	-	1P	LC	IB	OB
	13300 13300 VA Single Phase 17000 17000 VA Single Phase	1P Single Phase	LC Lead Calcium	IB 277V	OB 277V

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	WB Wall Mounting Bracket ¹	WEB Web Monitoring Connection ²
CB Custom Breaker	TA Trip Alarm with Breaker	BI BMS Integration	
DT Delayed Transfer	RA Remote Annunciator (Not Included with TB)	BTMS Battery Thermal Management System	
EBW20 Extended Battery Warranty	TB Programmable Terminal Block (Not Included with RA)	EO Emergency Power Off	

NOTE

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

ORDERING NOTES

1. WB option only available on 1KVA inverters.
2. In order to use the web-based monitoring available at Isolite.com, the -WEB option must be selected.

ACCESSORIES ON NEXT PAGE

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
- Circuit breaker protected loads (Switched, Normally On, and Normally Off)
- Fault summary alarm and 2 programmable alarms – Form C dry contacts

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
- 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. For Two Phase, Three Phase, or Split Phase, see E3MAX-3P, E3MAX-2P, or E3MAX-SP
- 10,000 and 12,500 VA only available with 277V input/output



E3MAX-1P

13,300-17,000 VA Single Phase Modular AC Inverter



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
Single-Phase (1P)	36	24	35	35	23	23	34	22

WEIGHT & DIMENSIONS

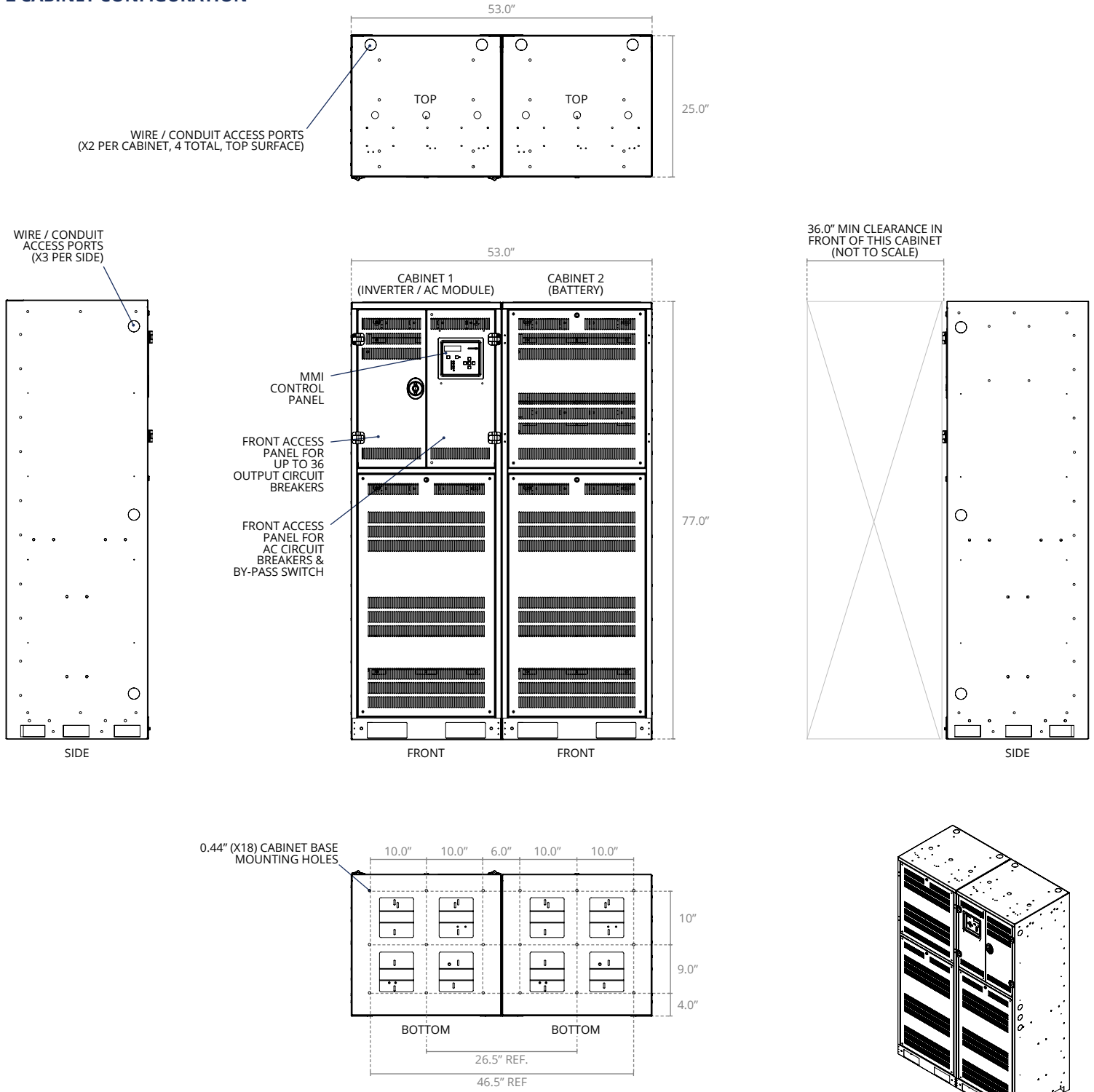
Phase	Power Rating (kW)	# of Cabinets	Width (in)	Height (in)	Depth (in)	Inverter Cabinet Weight (lbs)	Battery Cabinet Weight (lbs)	Shipping Weight (lbs)	# of Batteries
Single-Phase (1P)	13.3 kW	2	53	77	25	790	2336	3161	16
	17.0 kW	2	53	77	25	790	2820	3645	20

ELECTRICAL DATA

Model	Power Rating (kW)	Minimum Feed Breaker		Suggested Feed Breaker		Full Load BTU/Hr
		Input Voltage IB		Input Voltage IB		
E3MAX-13300-1P	13.3 kW	78 A		80 A		907
E3MAX-17000-1P	17.0 kW	99.7 A		100 A		1159

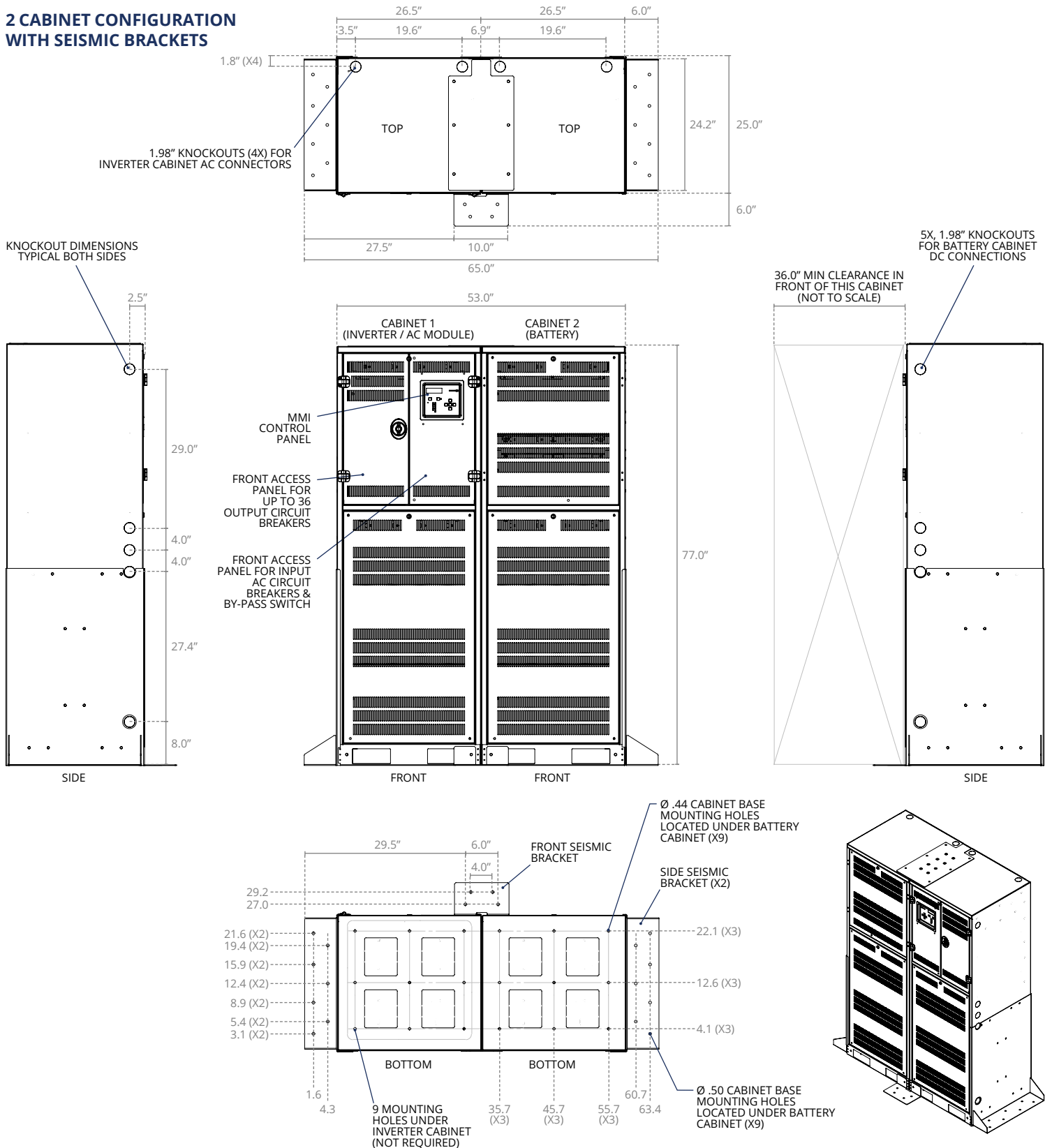
DIAGRAMS

2 CABINET CONFIGURATION



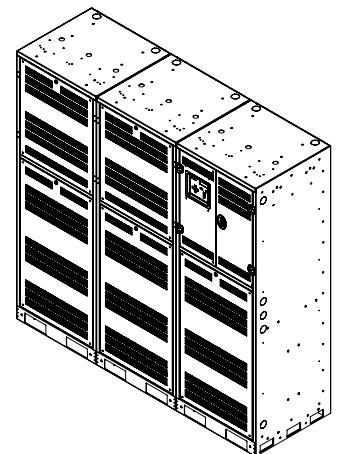
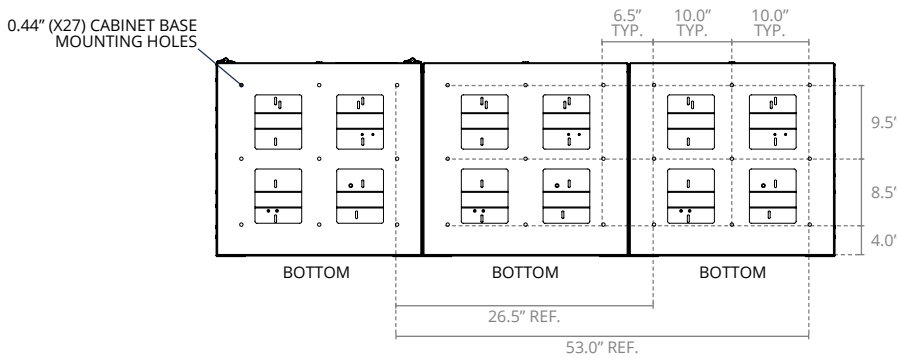
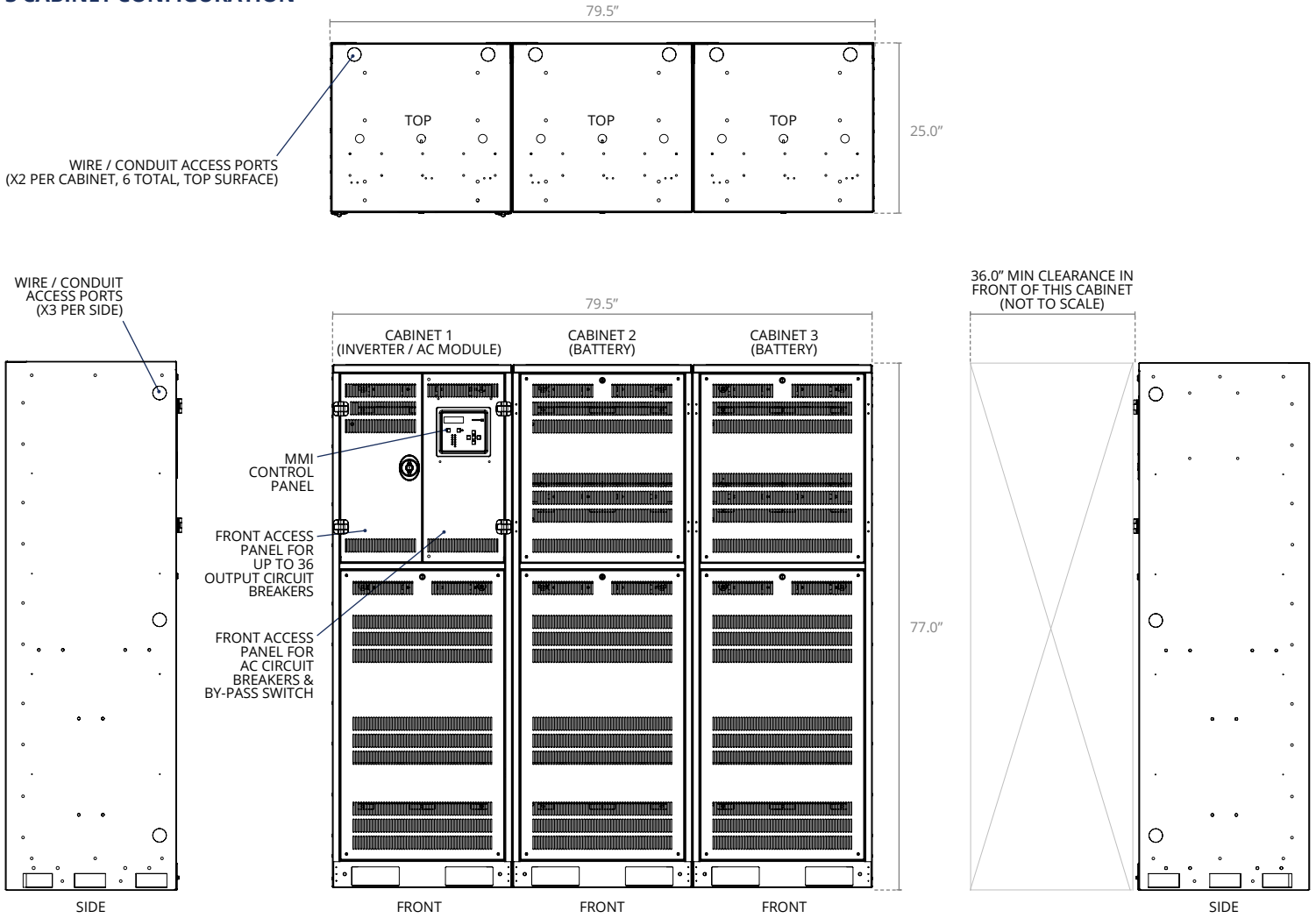
DIAGRAMS (CONTINUED)

2 CABINET CONFIGURATION WITH SEISMIC BRACKETS



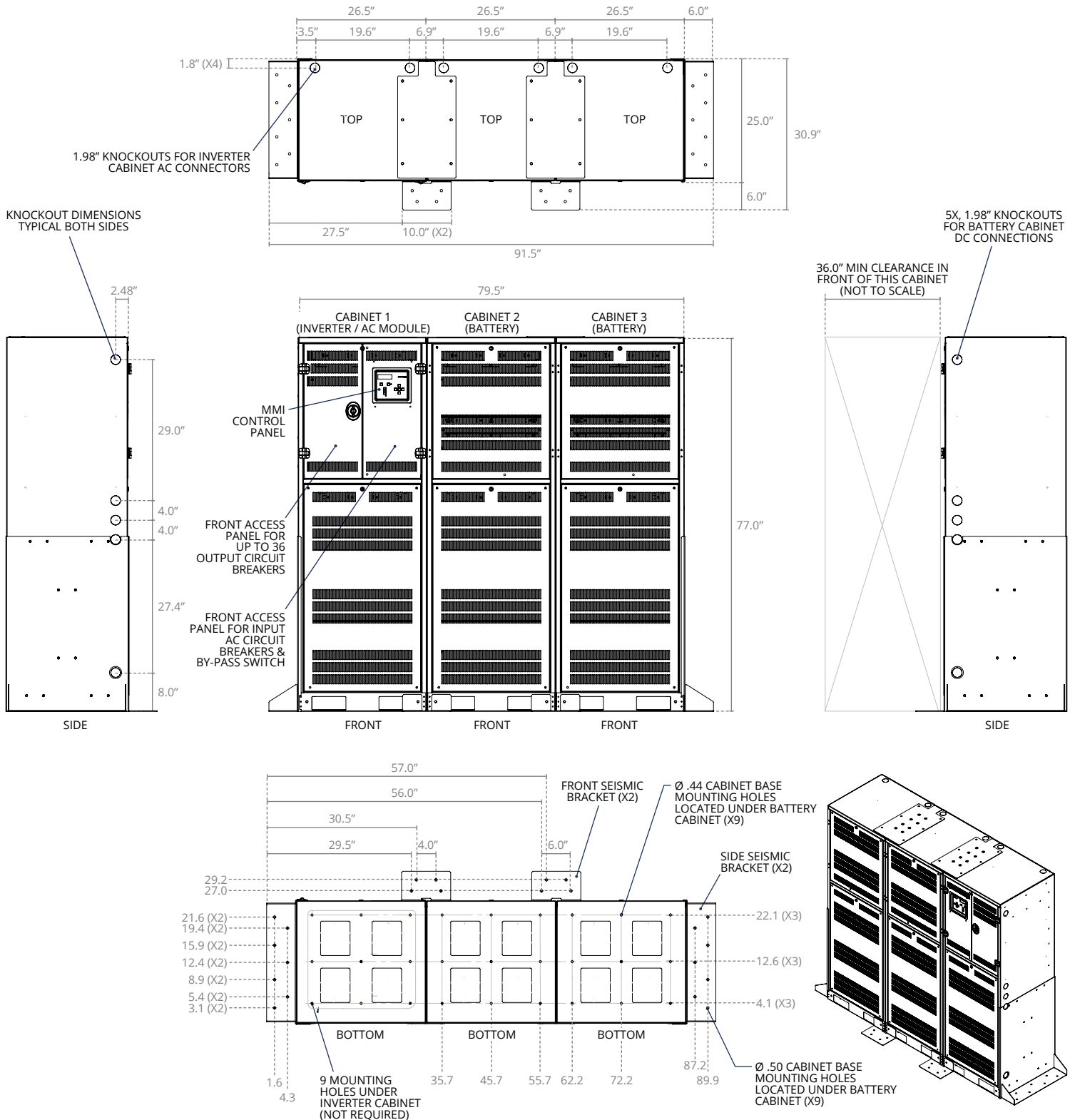
DIAGRAMS (CONTINUED)

3 CABINET CONFIGURATION



DIAGRAMS (CONTINUED)

3 CABINET CONFIGURATION WITH SEISMIC BRACKETS



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	30113/30114 (UINT32)
System Events	AI	20	30115/30116 (UINT32)