

SITE PLANNING DATA - EBC-Li 128S

External Battery Cabinet with Lithium-Ion batteries

Detailed exterior dimensions Page 1

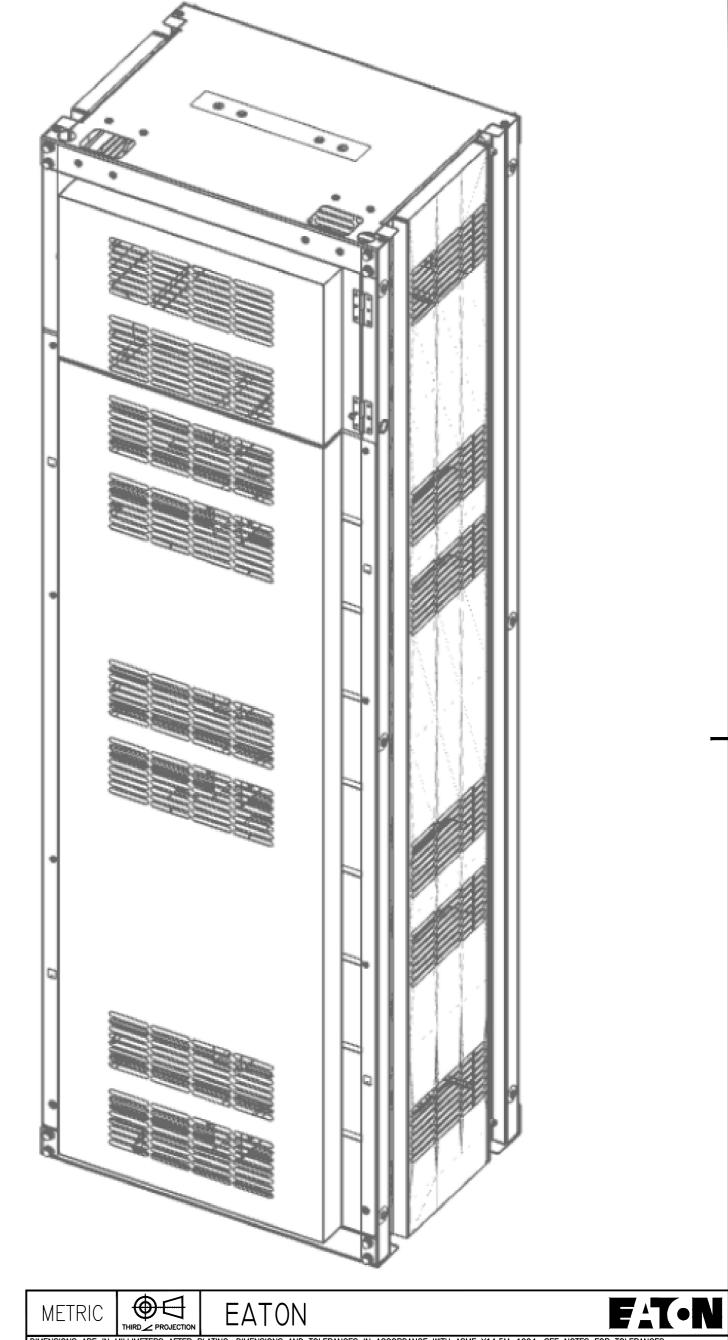
Installation details Page 2

Page 3 Packing details

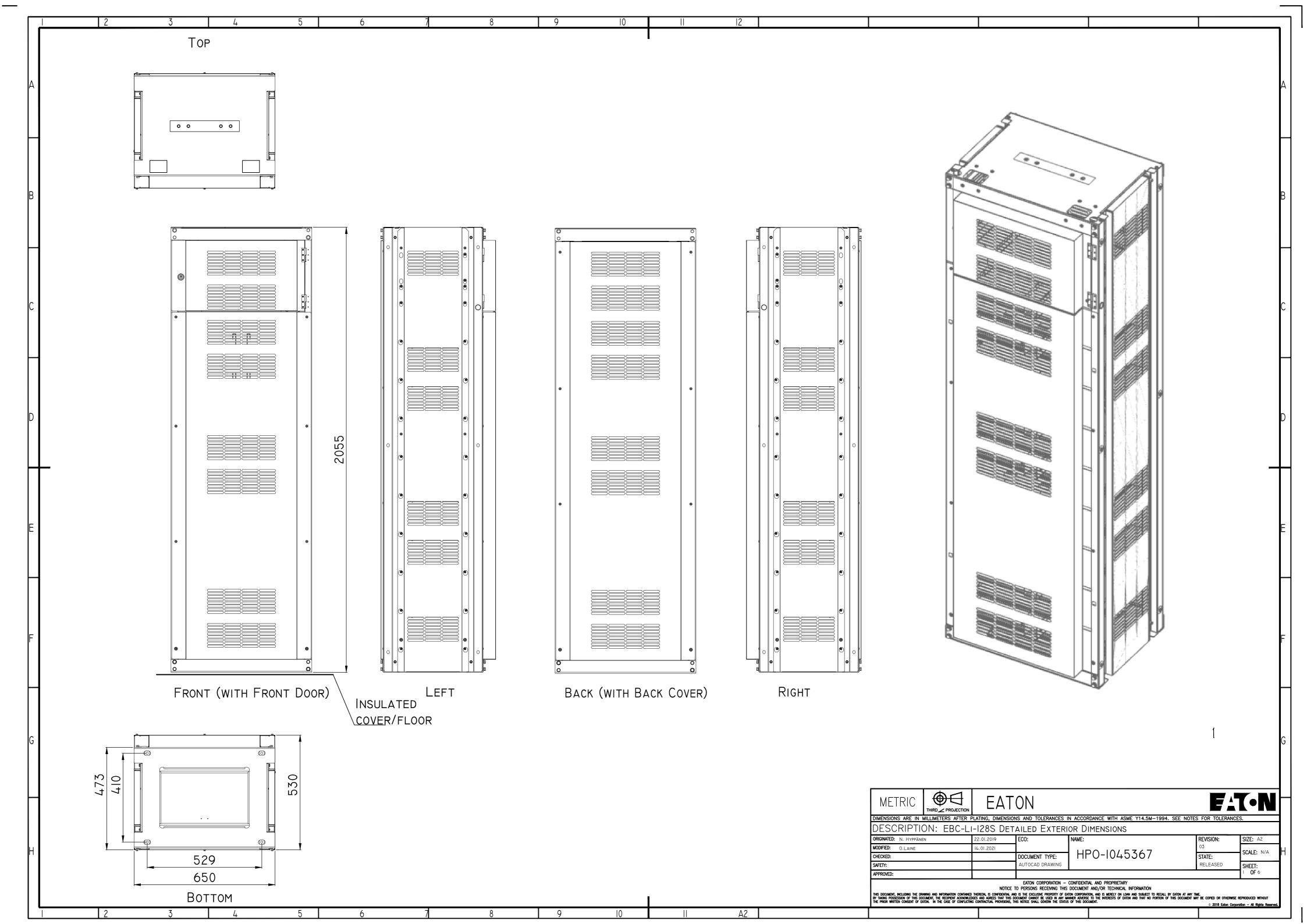
Page 4 Component details

Connection and wiring details Page 5

Page 6 System connection



METRIC	THIRD PROJECTION	EAT	ON		FA		-
MENSIONS ARE IN	MILLIMETERS AFTER	PLATING, DIMENSION	NS AND TOLERANCES I	N ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTE	S FOR TOLERANCES	3.	1
ESCRIPTION	ESCRIPTION: EBC-LI-128S SITE PLANNING DATA						
IGINATED: N. HYPPÄNE	EN	13.07.2020	ECO:	NAME:	REVISION:	SIZE: A2	ı
DIFIED: O.LAINE		14.01.2021	<u> </u>	1100 107 5777	03	SCALE: N/A	Н
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Battery configuration (160kW, 10mins)				
Average	Discharging	Total Energy		
Current [A]	time [min]	(kWh)		
Discharge 205	20	2,2		
Discharge 326	10,0	2,8		
Discharge 402	8,3	4,3		
Charge 22,3	210	0,3		

EBC-LI HEAT DISSIPATION.

BATTERY HEAT REJECTION MAX 500W PER RACK DURING AND AFTER DISCHARGE

NOTE: HEAT ENERGY CREATED DURING DISCHARGE IS REJECTED TO ROOM WITHIN FOLLOWING SEVERAL HOURS

CLEARANCE IS NEEDED ONLY IN FRONT OF THE CABINET, AND ON TOP OF THE CABINET FOR THE CABLING.

EBC-LI POWER CABLE ACCESS IS LOCATED ONLY ON THE TOP OF THE CABINET.

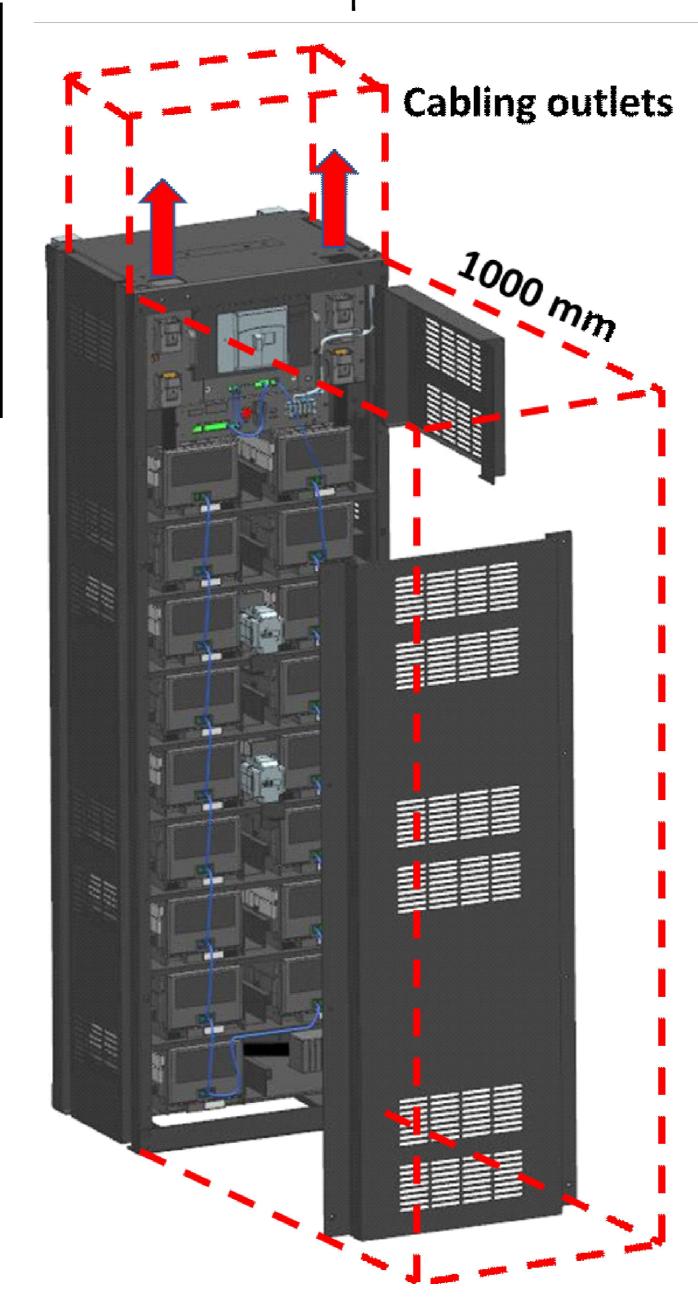
SIGNAL CABLING BETWEEN ADJACENT CABINETS CAN BE ROUTED THROUGH SIDE PANELS.

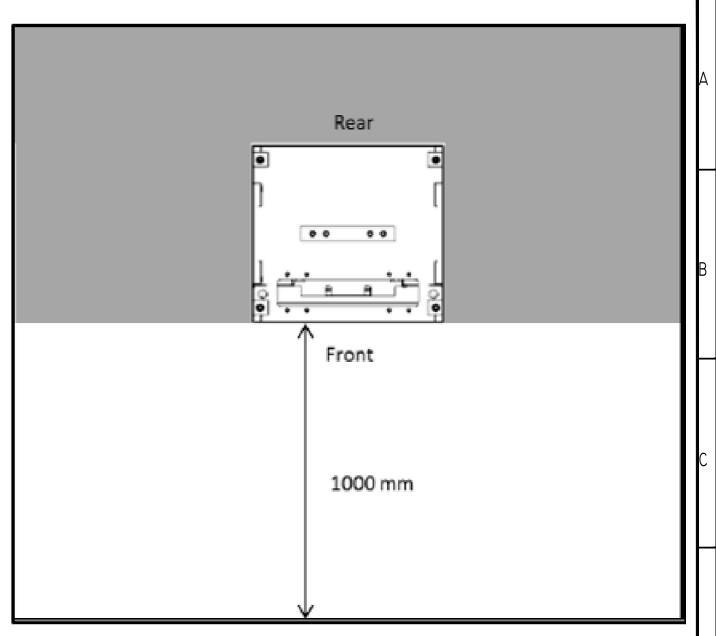
NOTE!

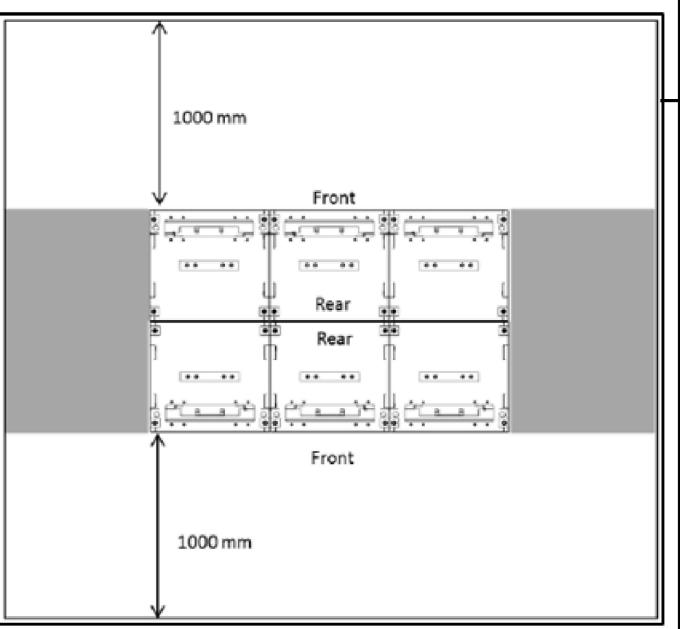
I. INSTALLED WEIGHT OF THE UNIT: 493 KG

2. FLOOR LOADING: 1430 KG/M²

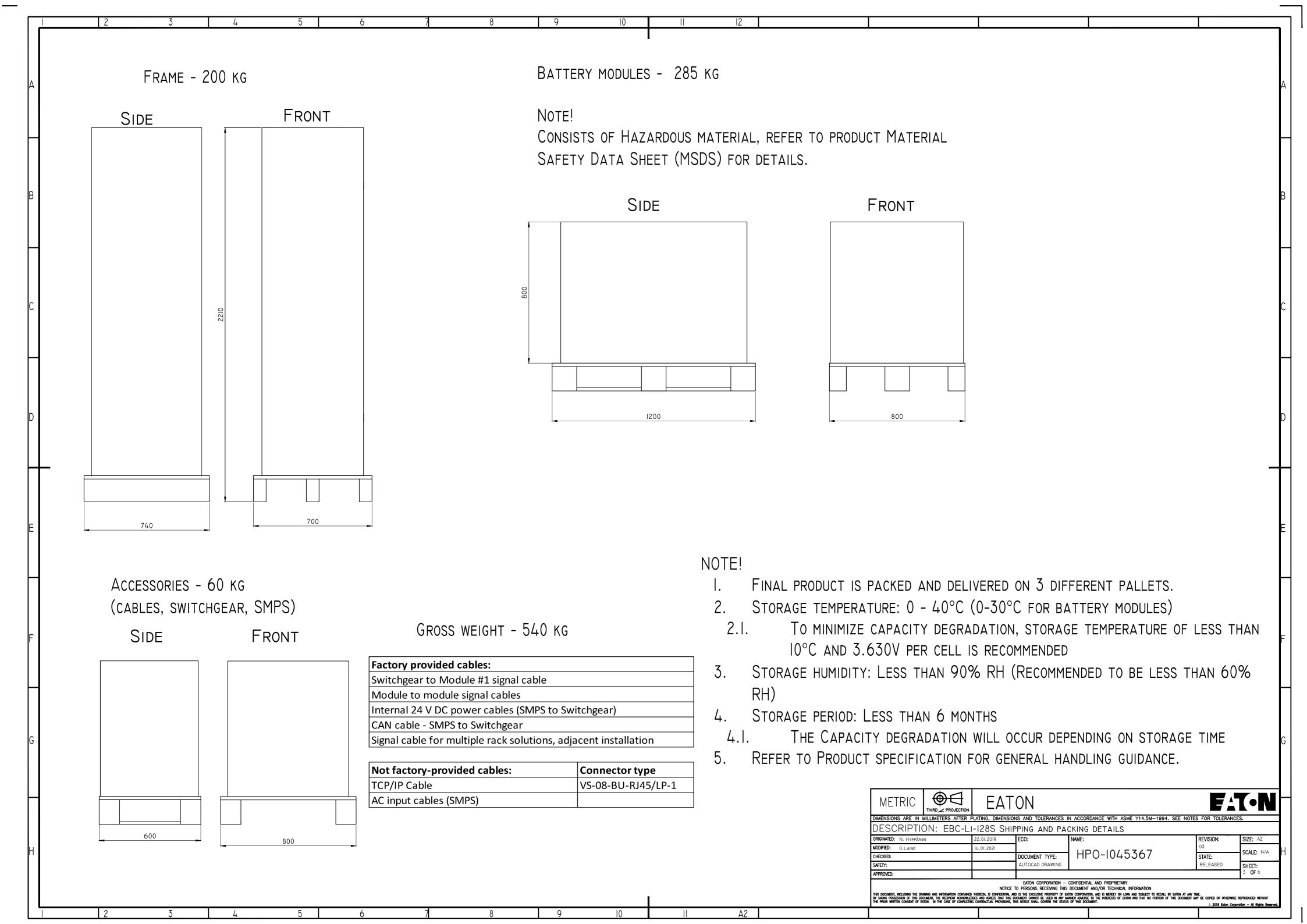
3. RECOMMENDED OPERATION TEMPERATURE: 23±5 °C

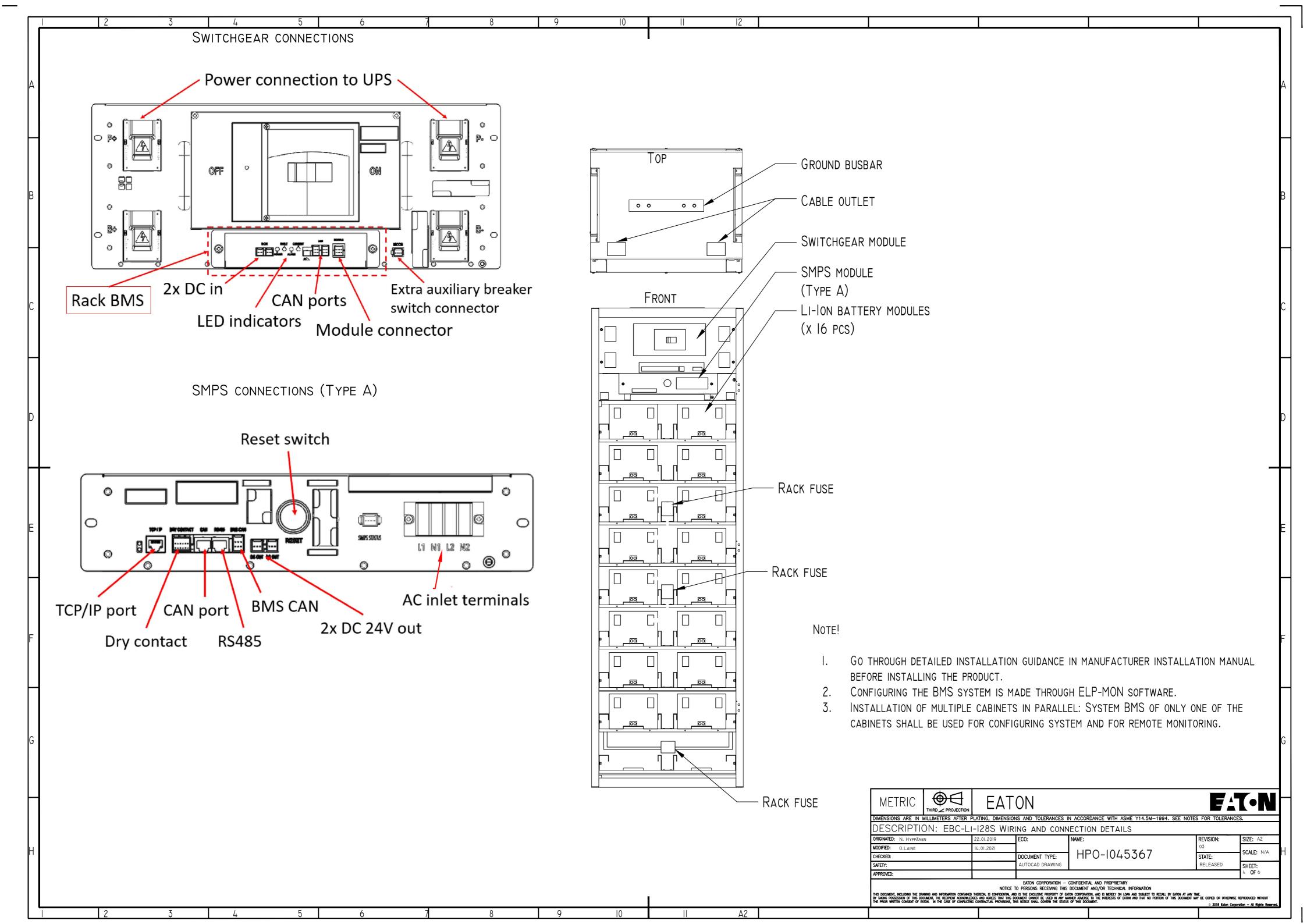


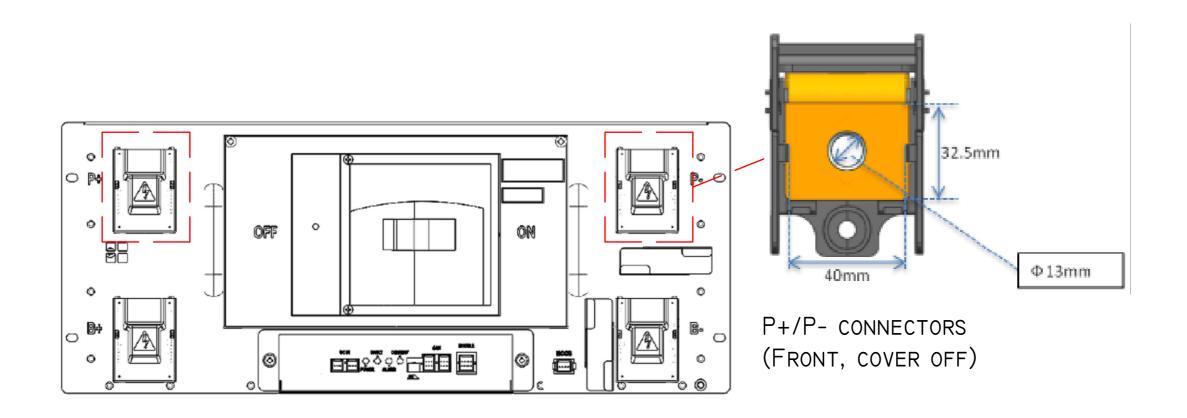










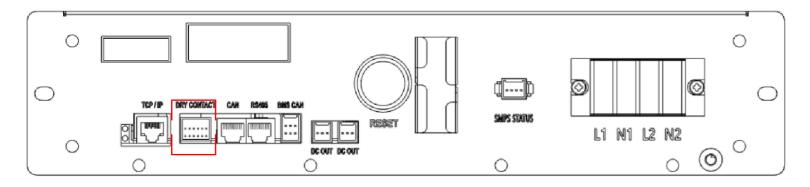


Size Torque M16 bolt Rack anchoring* 140 Nm Ground wire * ≥ 70 mm2 30 Nm Ground wire fasteners * M12x30 Switchgear and SMPS to rack M5x10 5.1 - 6.1 Nm M5x10 Switchgear and SMPS ground 5.1-6.1 Nm 30 Nm M12 bolt (SG) Battery to SG (busbar) (B+/B-) M8 bolt (Batt) | 8.16-11.94 Nm M8 bolt Batt to batt (busbar) 8.16-11.94 Nm Power cable connection* M12 cable lug 30 Nm

^{*}Not factory-provided

UPS power	Suggested power cable sizes
50 kW / 50 kVA	35 mm ² , Cu
100 kW / 100 kVA	95 mm ² , Cu
150 kW / 150 kVA	150 mm ² , Cu
175 kW / 200 kVA	185 mm², Cu

SMPS DRY CONTACT TERMINATIONS (FRONT VIEW OF SMPS TYPE A)



Connector	S12B-J11DK-TXR	JST
Harness Housing	J11DF-12V-KX	-
Harness terminal	SF1F-21T-P0.6	AWG 18-22

PIN NO.	PIN Name	Function
B1	Major Common	Overvoltage Protection
A1	Major Normally Closed	Undervoltage Protection Overtemperature Protection
B2	Major Normally Open	Overcurrent Protection
A2	Minor Common	Voltage Imbalance Error
В3	Minor Normally Closed	Voltage Sensing Error Undertemperature Protection
A3	Minor Normally Open	Temperature Imbalance Error
B4	MCCB Status Common	All MCCD's are off. A4 D4 is aloud
A4	MCCB Status Normally Closed	All MCCB's are off: A4, B4 is closed
B5	MCCB Status Normally Open	One of the MCCB's is on: B5, B4 is closed
A5	Reserved	
B6	Input	Set Condition: UPS opens B6, A6 contacts for
A6	GND	more than 3 seconds. Action: Battery MCCB Trip

Note!

- I. GO THROUGH DETAILED INSTALLATION GUIDANCE IN MANUFACTURER INSTALLATION MANUAL BEFORE INSTALLING THE PRODUCT.
- 2. Power cable sizing is based on IEC 60364-5-52, Table B.52.2
- 2.1. INSTALLATION METHOD C
- 2.2. AMBIENT TEMP. 30 DGR C
- 2.3. CONDUCTOR TEMP. 70 DGR C (PVC INSULATION)
- 2.4. BUNDLING CABLES WITH OTHER CIRCUITS NOT ALLOWED
- 2.5. CABLE SIZES ARE CALCULATED FOR IX EBC-LI IX UPS SYSTEMS, IN MULTIPLE CABINET SYSTEMS, CABLE SIZES VARIES
- 2.2. EBC-LI CABINETS ARE NOT POSSIBLE TO DAISY CHAIN

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DESCRIPTION	DESCRIPTION: EBC-LI-128S WIRING AND CONNECTION DETAILS						
ORIGINATED: N. HYPPÄNI	EN	22.01.2019	ECO:	NAME:	REVISION:	SIZE: A2	1
MODIFIED: O.LAINE		14.01.2021	7	1100 104 5747	03	SCALE: N/A	14
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SAFETY:			AUTOCAD DRAWING		RELEASED	SHEET:	1
APPROVED:						5 0F 6	ı
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