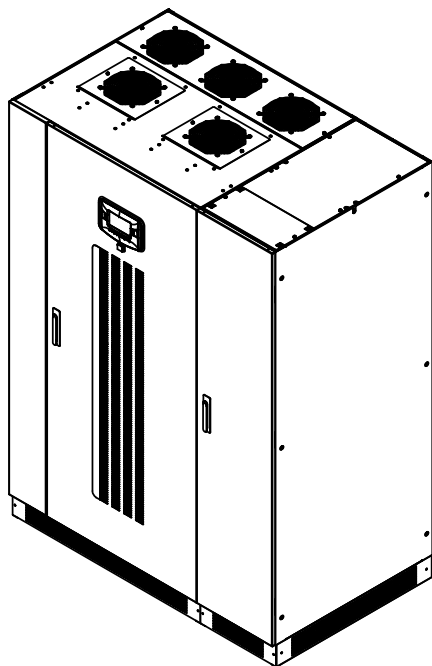
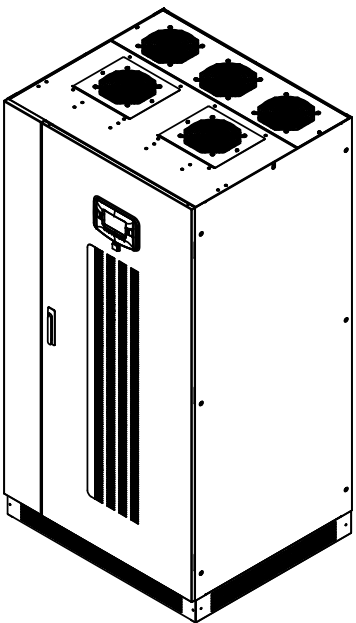


INSTALLATION INSTRUCTIONS

Read "User Manual" before starting with installation

General characteristics for environmental consideration							
MASTER HP FC-UL Series		W/O TCE			W TCE		
		MFC 125	MFC 160	MFC 200	MFC 125	MFC 160	MFC 200
Rated Power	kVA/ kW	125/112,5	160/144	200/180	125/112,5	160/144	200/180
Power loss (kW) 50%/load/100%/load	kW	4,2/7,2	4,6/8,4	5,7/10,5	4,2/7,2	4,6/8,4	5,7/10,5
Air flow	m³/h	3200					
Max ambient temperature	°C/°F	40/104					
Altitude without derating	m/feet	1000/3300					
Relative Umidity		≤ 95% non condensing					
Dimensions and weight							
UPS weight	kg / lb	840 / 1852	970 / 2139	1110 / 2448	1000 / 2205	1145 / 2525	1270 / 2800
Dimensions WxDxH	mm / in	1000x850x1900 39,37x33,46x74,8			1400x850x1900 55,12x33,46x74,8		
Footprint area	m² / ft²	0,85 / 9,146			1,19 / 12,8		
Opening for Cable Entry							
TOP	m² / ft²	NA			0,25 / 2,69		
BOTTOM		0,12 / 1,29			0,19 / 1,93		



POWER CONNECTIONS

WARNING

The FC is provide with Bond that connects the Neutral Output to the frame Ground for delta input connection. This is required to meet NEC grounding code for separately derived neutrals. Refer to NEC article 250(Grounding and Bonding) for identify system of grounding and size of Equipment grounding conductor

Branch OCP devices must be provided as parts of plant.

Use at least 75°C rated copper wires. The size of cables are reported from NEC Table 310.16. Could be required a larger awg size than shown in these tables, because of temperature, number of conductors in conduit or long service runs.

MASTER HP FC-UL size (kVA)	125	160	200
INPUT AC LINE			
Input Line 3Ph + PE 480V 60Hz			
Branch-OCP device size (A)	300	350	450
Phase and neutral cond. Size (kcmil/Awg)	500 or 2x2/0	2x4/0	2x4/0
Output 3Ph + N 230/400V 50Hz			
Rated current (A)	180	231	450
Phase and neutral cond. Size (kcmil/Awg)	300 or 2x2/0	2x4/0	2x4/0
Battery (if provide) DC Input			
Branch-OCP device size (A) *	300	400	500
Polarities + and - conductors (Kcmil/Awg)	2x4/0	2x300	3x4/0 or 4x2/0

**If "Riello BBX 1900 480V UL L8 3U" battery cabinets are provide, the OCP device is included in the cabinet. For other applications read "User Manual" Battery connections.*

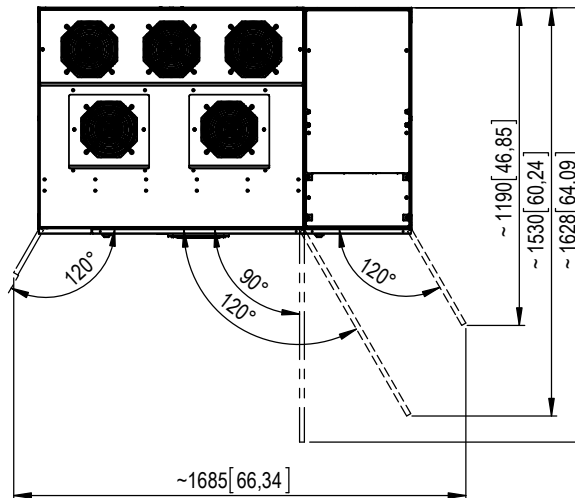
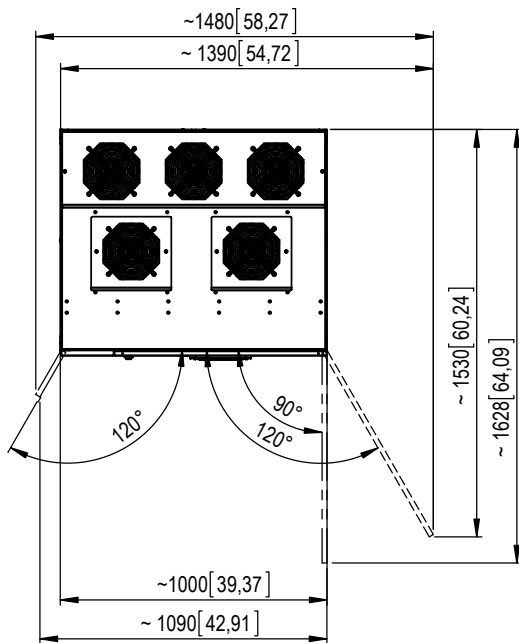
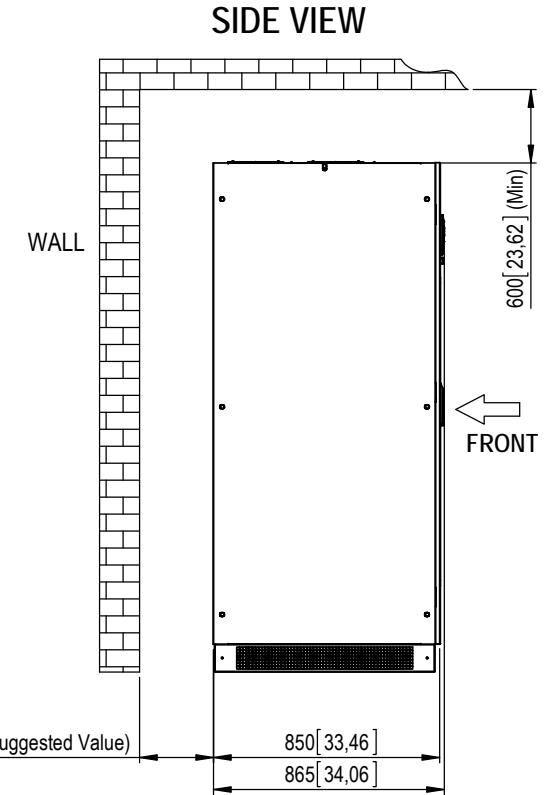
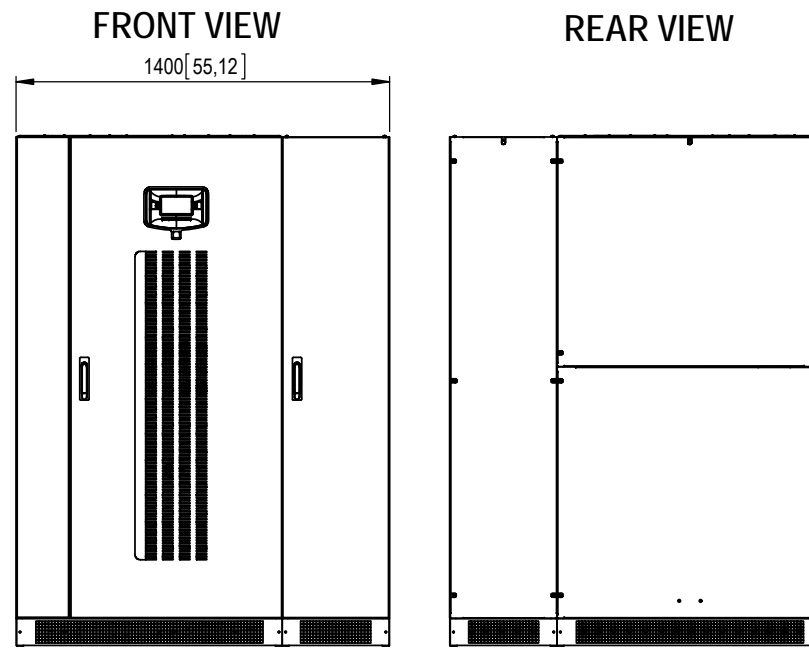
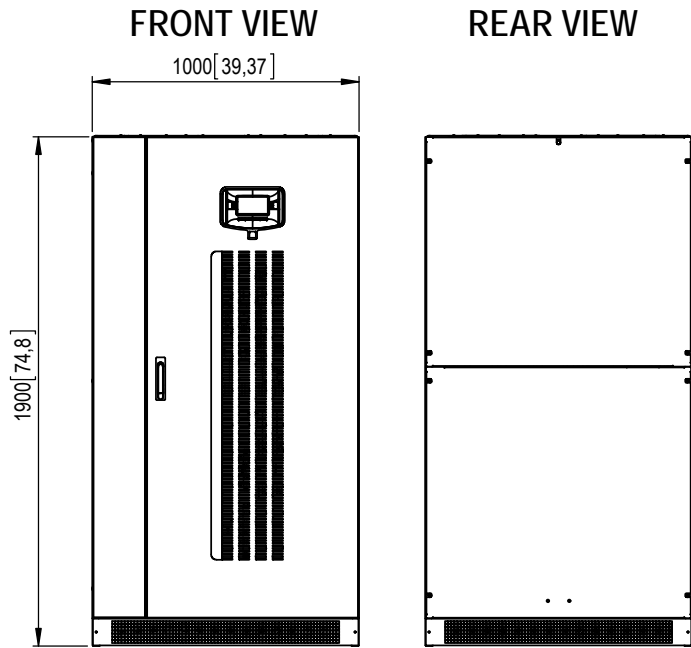
Ground terminal of Battery Cabinet must to connected to Ground terminal of UPS Cabinet.

RPS	EDIT. M. Fontana	DATA: 15/07/2014	VARIATION: ...	DRAW. No	REV.
	CONT. M. Fontana	DATA: 15/07/2014	...	OMLMFCM13RUENIA	00
	APPR. F. Amodeo	DATA: 15/07/2014	REPLACE: ...		
NOTE:	Scala: 1:20			Peso/Weight: 0.03 Kg	TITLE: MAN HP FC-UL 125-200 DRW EN

INSTALLATION INSTRUCTIONS

W/O TCE W TCE

NOTE:
 1000mm [39,37in] MINIMUM FRONT
 DISTANCE TO THE WALL



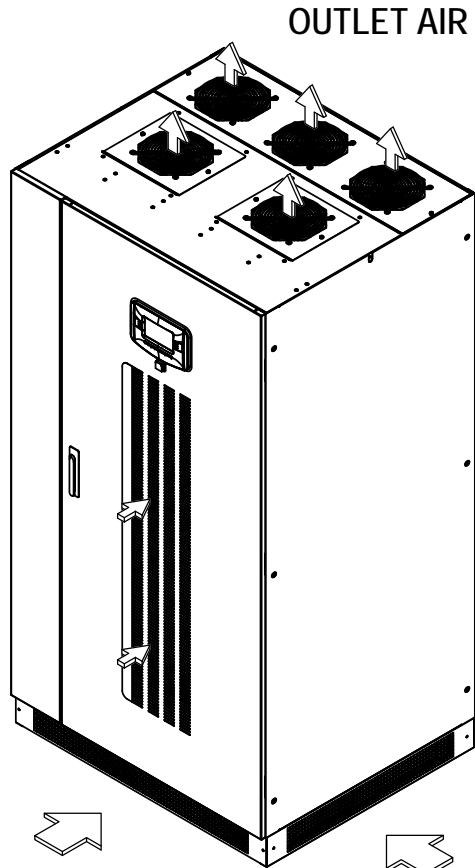
NOTE:
 Do not mount side kickplate when there are cabinet side by side.
 Leave at least one of the three (right, rear, left) of cabinet free

RPS	DRAW. No	REV.
	0MLMFCM13RUENIA	00
PAG.	2	DI 6

CART ISO_A3

MASTER HP FC-UL - Series W/O TCE

AIR FLOW

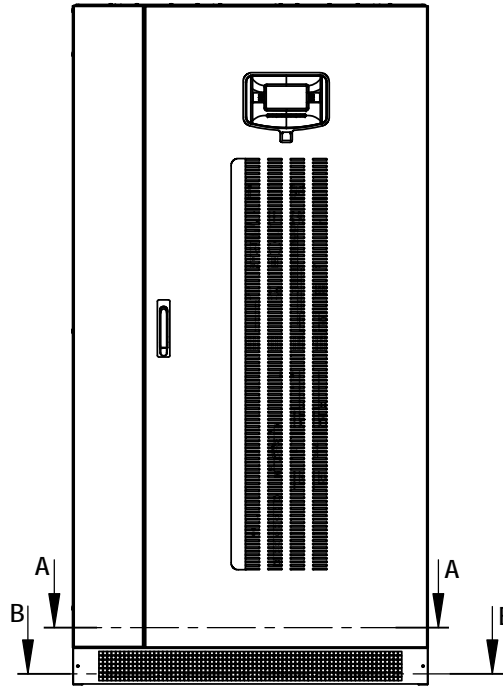


INLET AIR

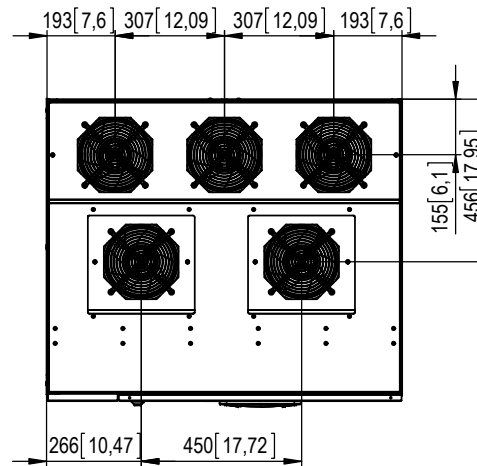
INLET AIR

NOTE:
High temperature may occur if the minimum value indicated is not maintained above the FC

FRONT VIEW

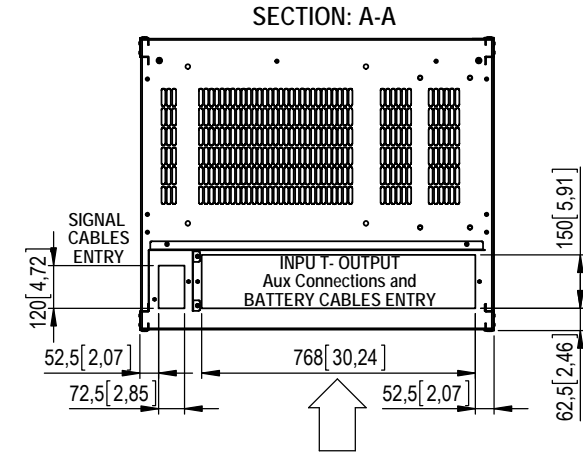


TOP VIEW Fans Position

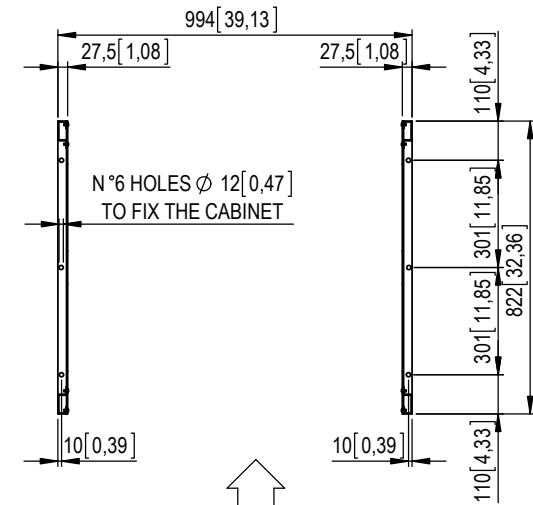


FRONT

BOTTOM VIEW W/O DOOR AND PANNEL Opening for Cable entry

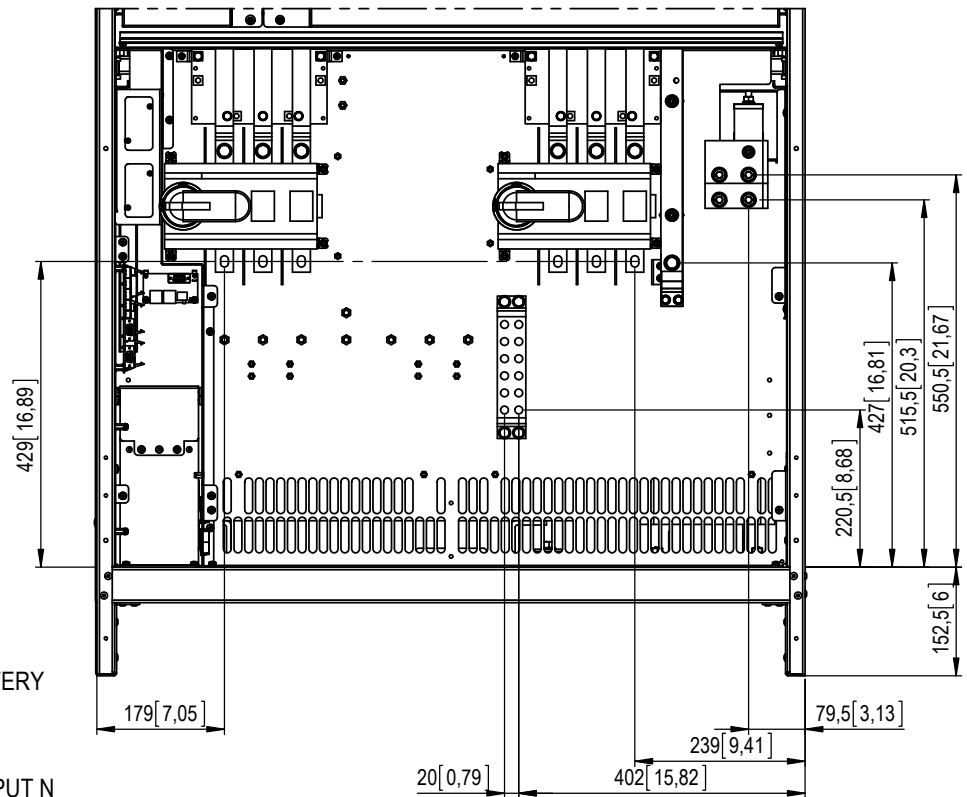
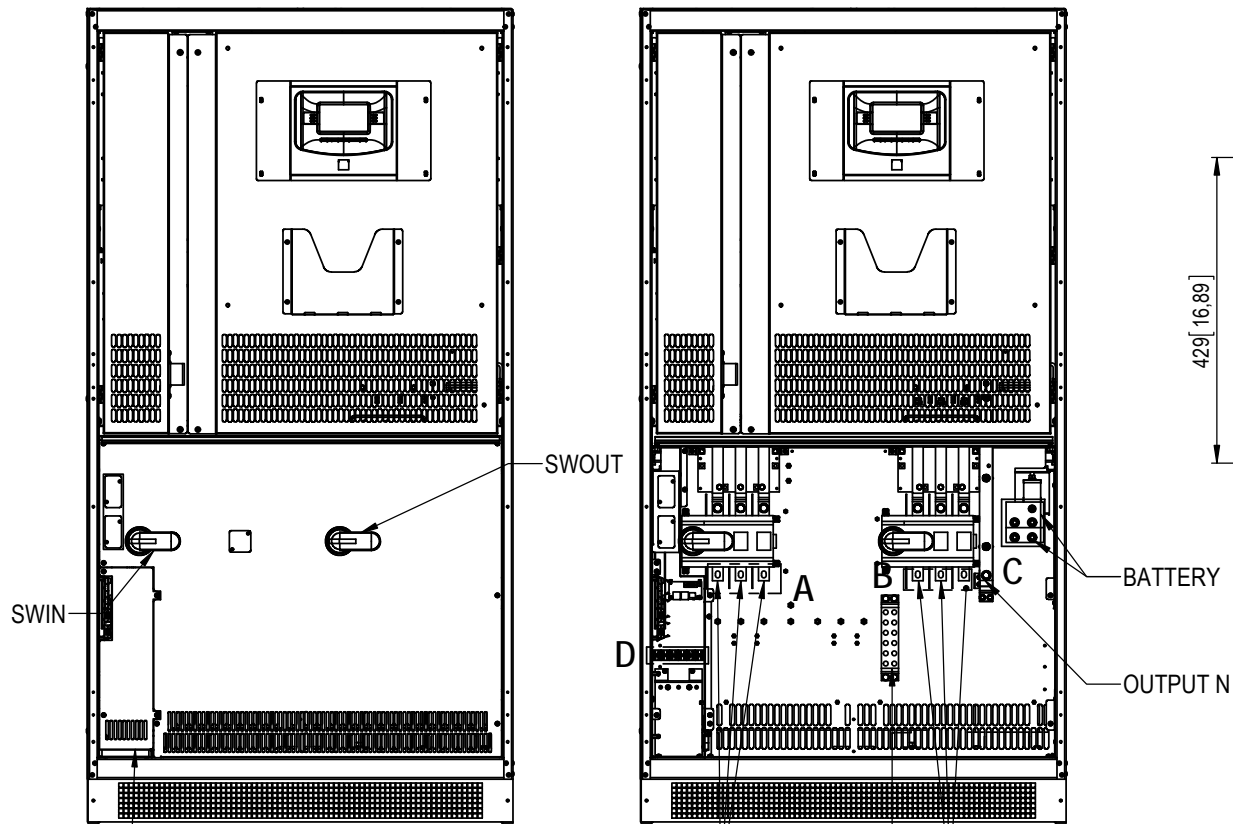


BOTTOM VIEW W/O DOOR AND PANNEL Bearing surface of cabinet SECTION: B-B

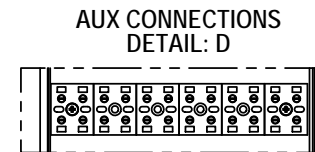
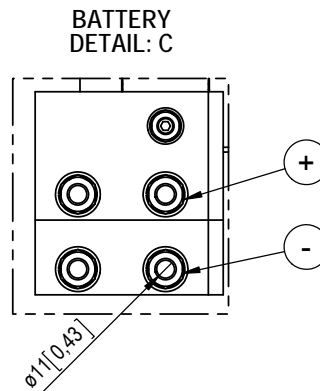
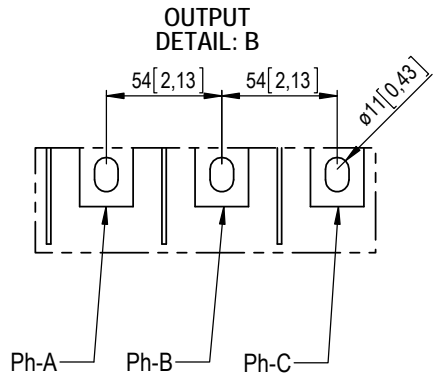
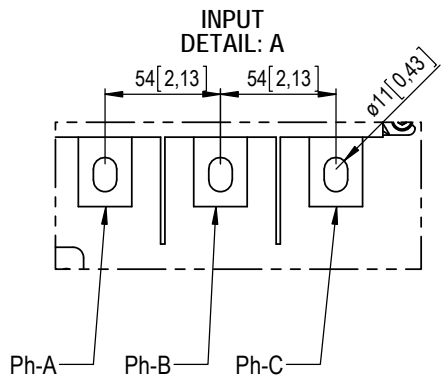


RPS	DRAW. No	REV.
	0MLMFCM13RUENIA	00
PAG.	3	DI 6

MASTER HP FC- UL - Series W/O TCE



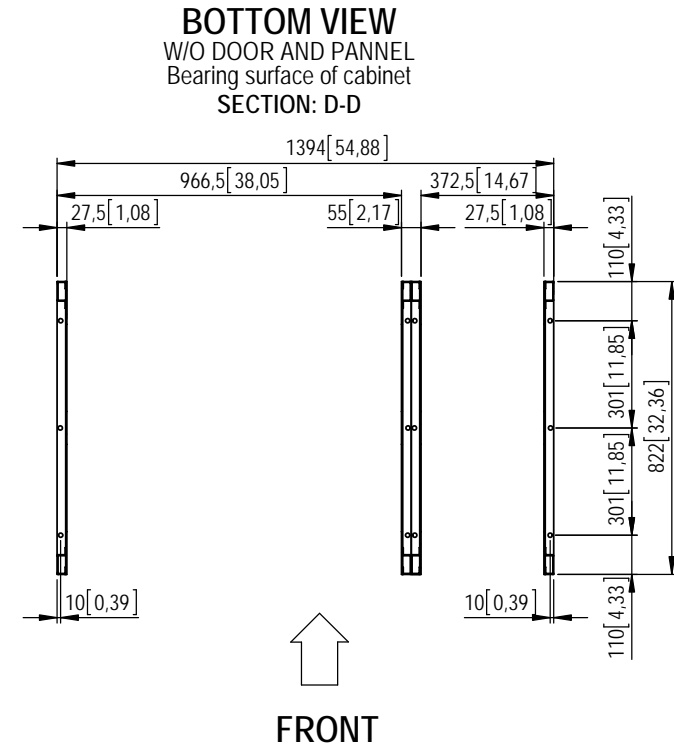
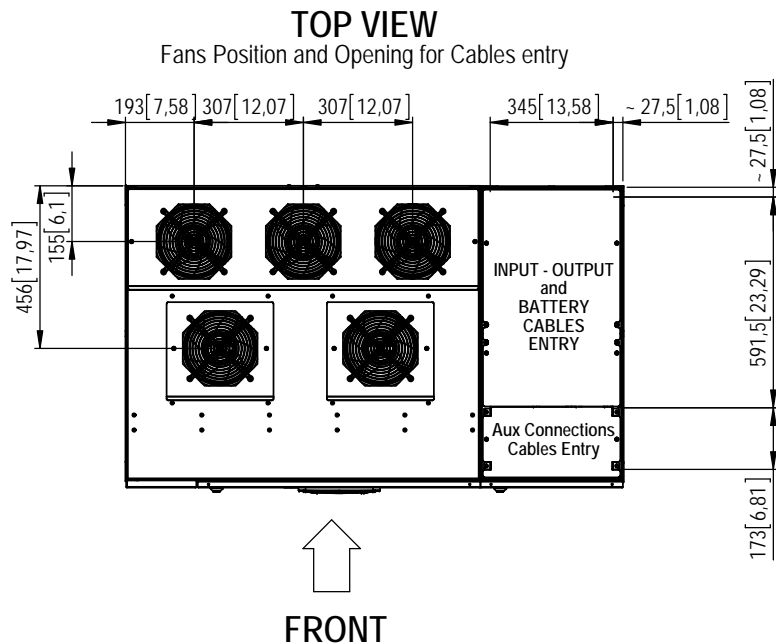
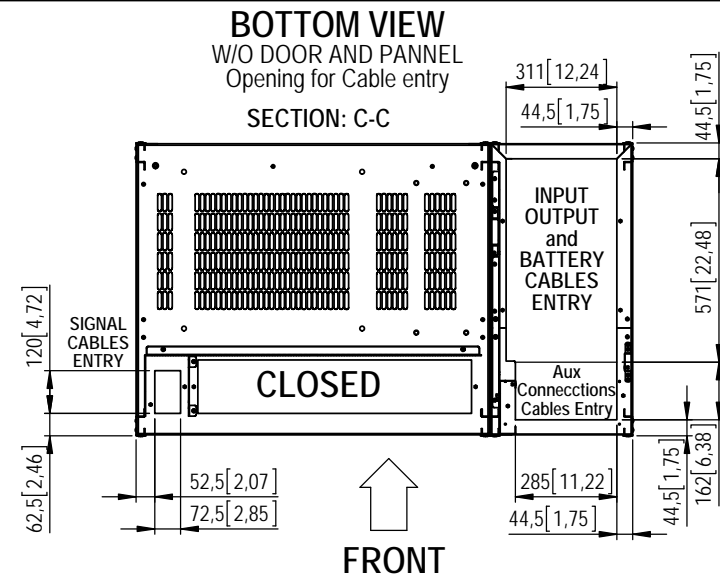
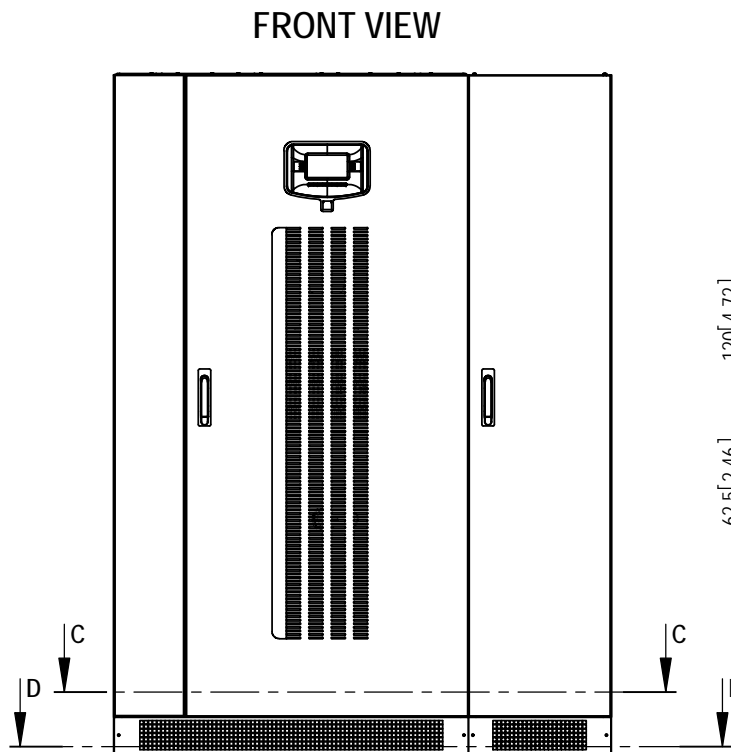
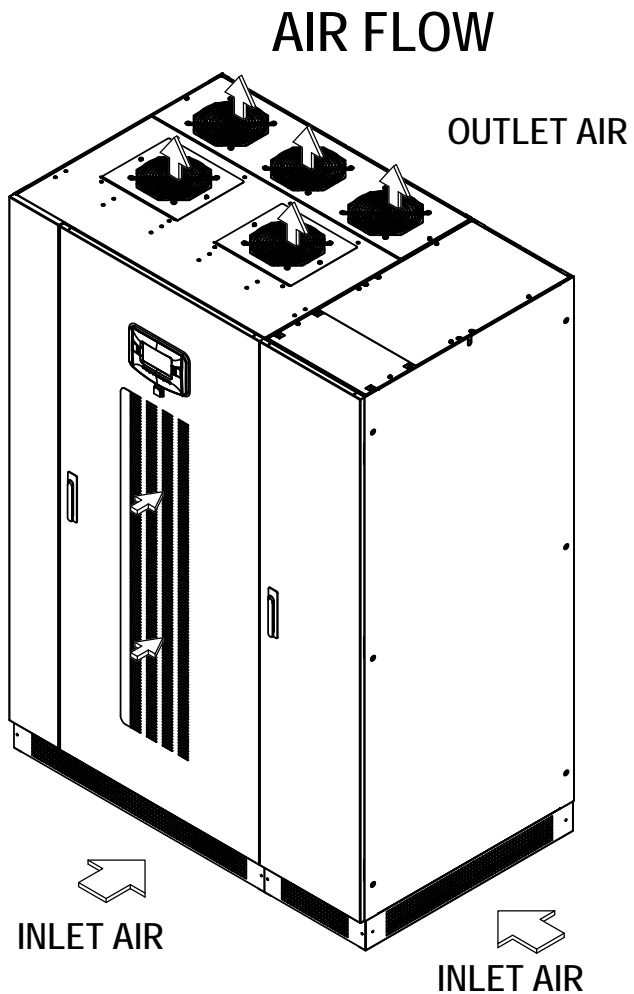
Torque specification		
Bolt size	Torque Load	
3/8 - M10	40Nm	29,5lbf-ft



RPS

DRAW. No	REV.
0MLMFCM13RUENIA	00
PAG. 4	DI 6

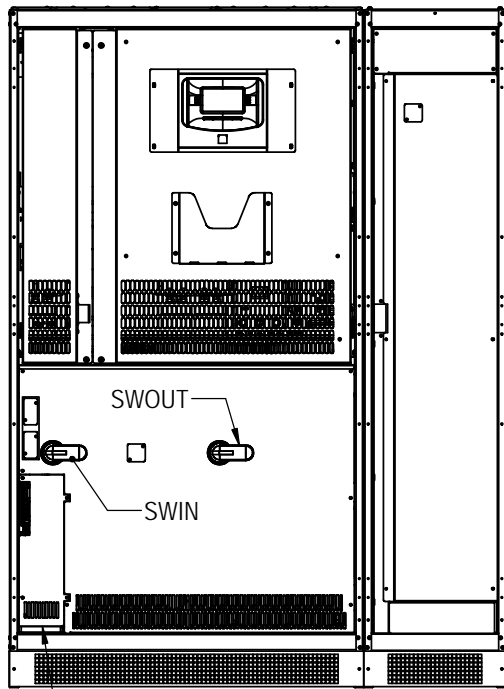
MASTER HP FC-UL - Series W TCE



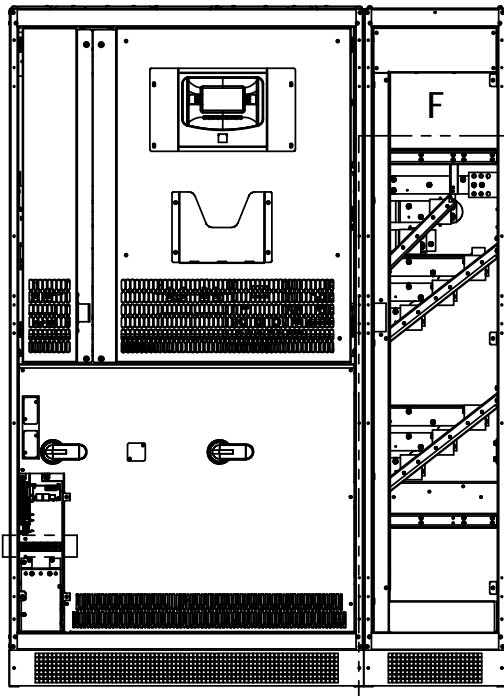
NOTE:
High temperaturerise may occur if the minimum value indicated is not maintained above the FC

RPS	DRAW. No	REV.
	0MLMFCM13RUENIA	00
PAG.	5	DI 6

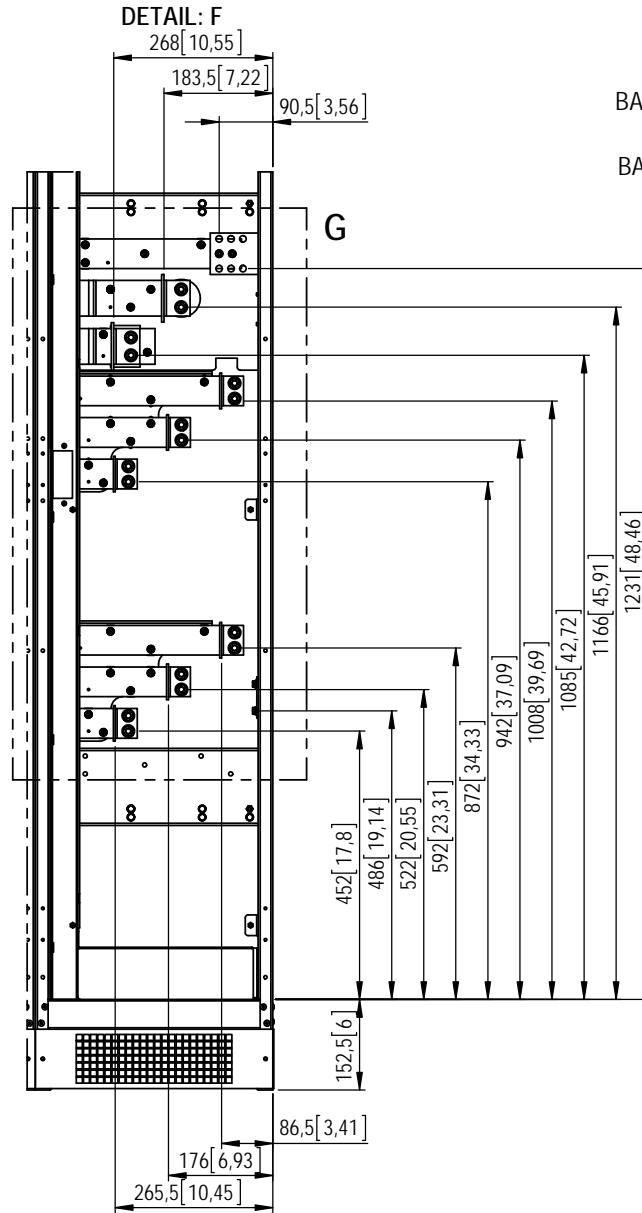
MASTER HP- UL - Series W TCE



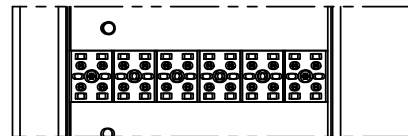
SLOT FOR RS232 AND NETMAN-MULTICOM CABLES ENTRY



E



AUX ACONNECTIONS
DETAIL: E

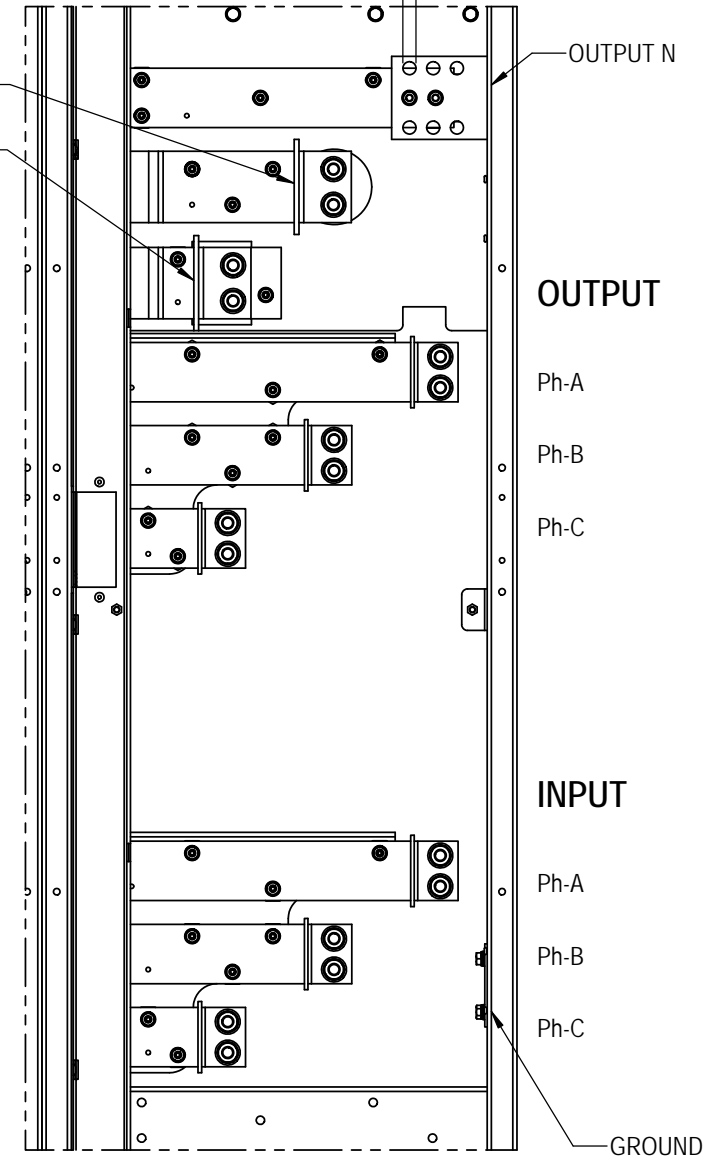


DETAIL: G

ALL HOLES $\varnothing 11 [0,43]$

BATTERY " + "

BATTERY " - "



Torque specification		
Bolt size	Torque Load	
M10 - 3/8	40Nm	29,5lbf-ft

RPS	DRAW. No	REV.
	0MLMFCM13RUENIA 00	
PAG.	6	DI 6