

SCHEMATICS
UNINTERRUPTIBLE POWER SUPPLY

LanPro 31

8 - 10 - 15 - 20 kVA

Series 1



СистемТ**ехника**

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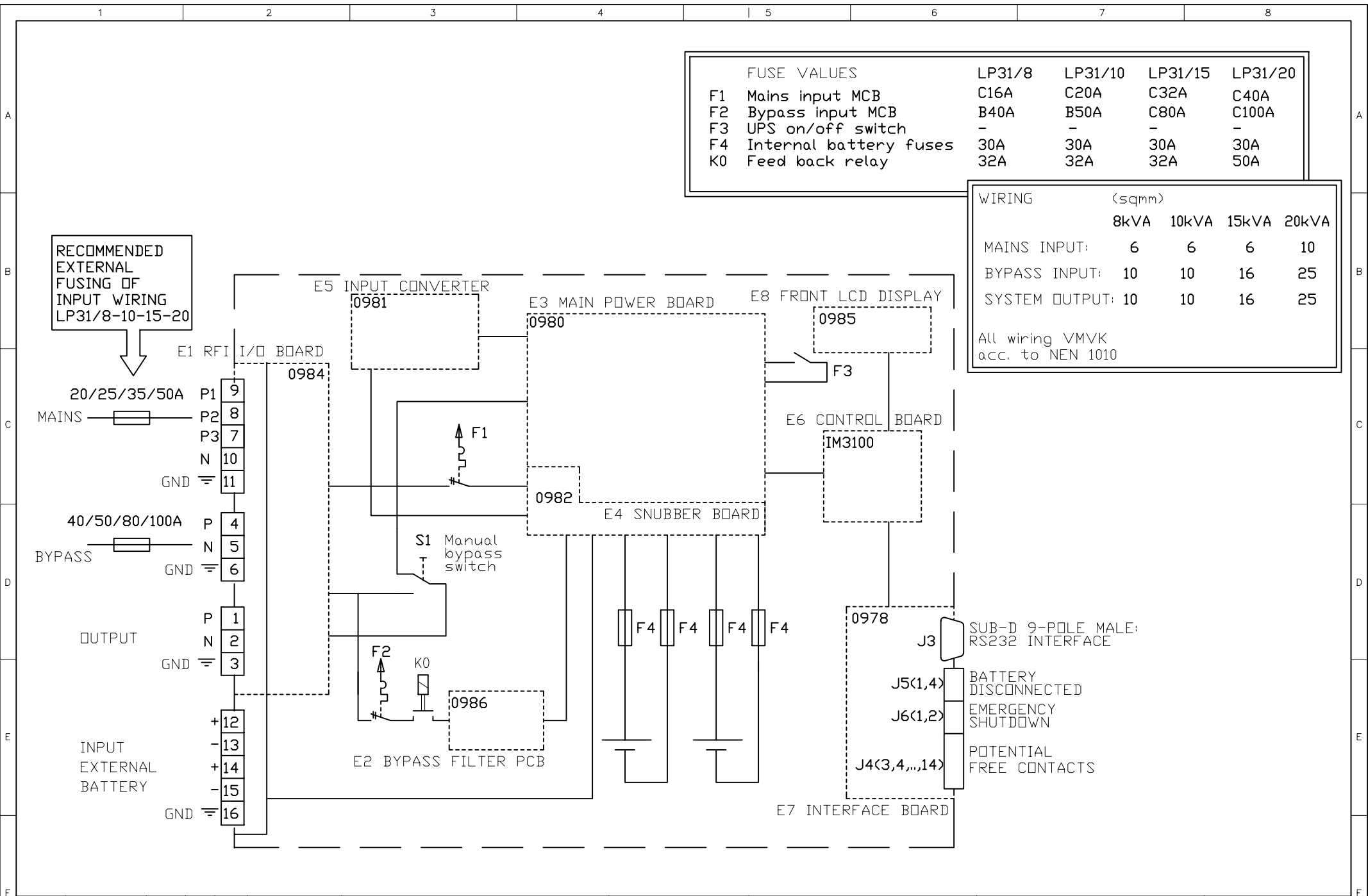


Model: **LanPro 31 / 8 – 10 – 15 – 20 kVA / Series 1**
Date of issue: 07.01.2003
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Revision: 2.1
Author: Raimondo Bizzozero
Identity No.:

UPS SCHEMATICS

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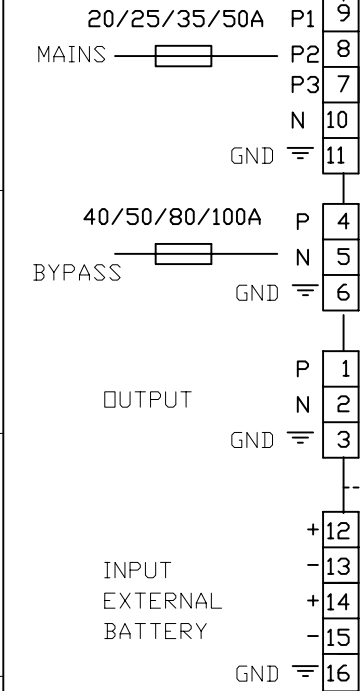


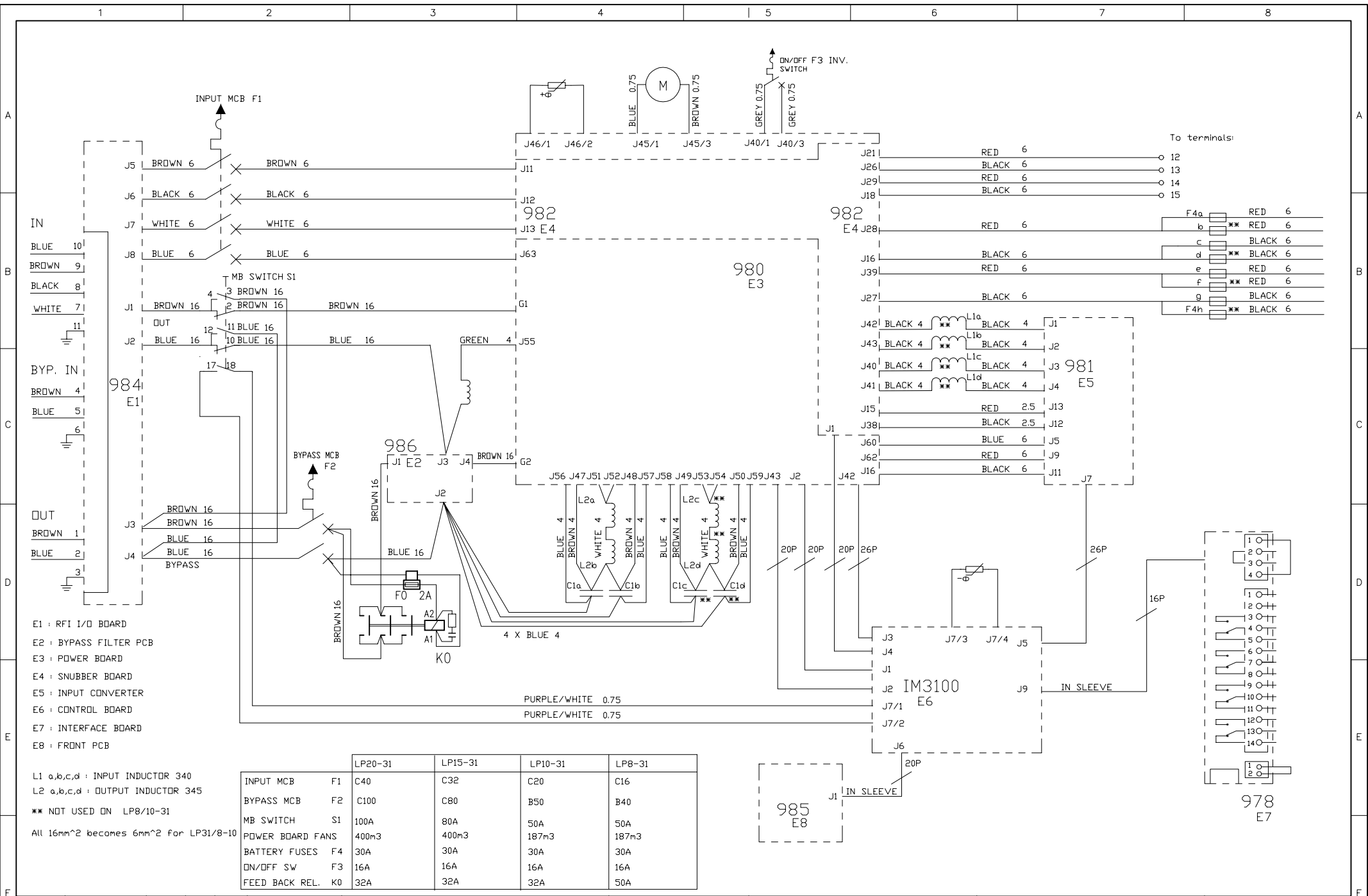
FUSE VALUES		LP31/8	LP31/10	LP31/15	LP31/20
F1	Mains input MCB	C16A	C20A	C32A	C40A
F2	Bypass input MCB	B40A	B50A	C80A	C100A
F3	UPS on/off switch	-	-	-	-
F4	Internal battery fuses	30A	30A	30A	30A
K0	Feed back relay	32A	32A	32A	50A

WIRING	(sqmm)			
	8kVA	10kVA	15kVA	20kVA
MAINS INPUT:	6	6	6	10
BYPASS INPUT:	10	10	16	25
SYSTEM OUTPUT:	10	10	16	25

All wiring VMVK acc. to NEN 1010

RECOMMENDED
EXTERNAL
FUSING OF
INPUT WIRING
LP31/8-10-15-20





- E1 : RFI I/O BOARD
- E2 : BYPASS FILTER PCB
- E3 : POWER BOARD
- E4 : SNUBBER BOARD
- E5 : INPUT CONVERTER
- E6 : CONTROL BOARD
- E7 : INTERFACE BOARD
- E8 : FRONT PCB

L1 a,b,c,d : INPUT INDUCTOR 340
 L2 a,b,c,d : OUTPUT INDUCTOR 345
 ** NOT USED ON LP8/10-31
 All 16mm² becomes 6mm² for LP31/8-10

	LP20-31	LP15-31	LP10-31	LP8-31
INPUT MCB F1	C40	C32	C20	C16
BYPASS MCB F2	C100	C80	B50	B40
MB SWITCH S1	100A	80A	50A	50A
POWER BOARD FANS	400m3	400m3	187m3	187m3
BATTERY FUSES F4	30A	30A	30A	30A
DN/OFF SW F3	16A	16A	16A	16A
FEED BACK REL. K0	32A	32A	32A	50A

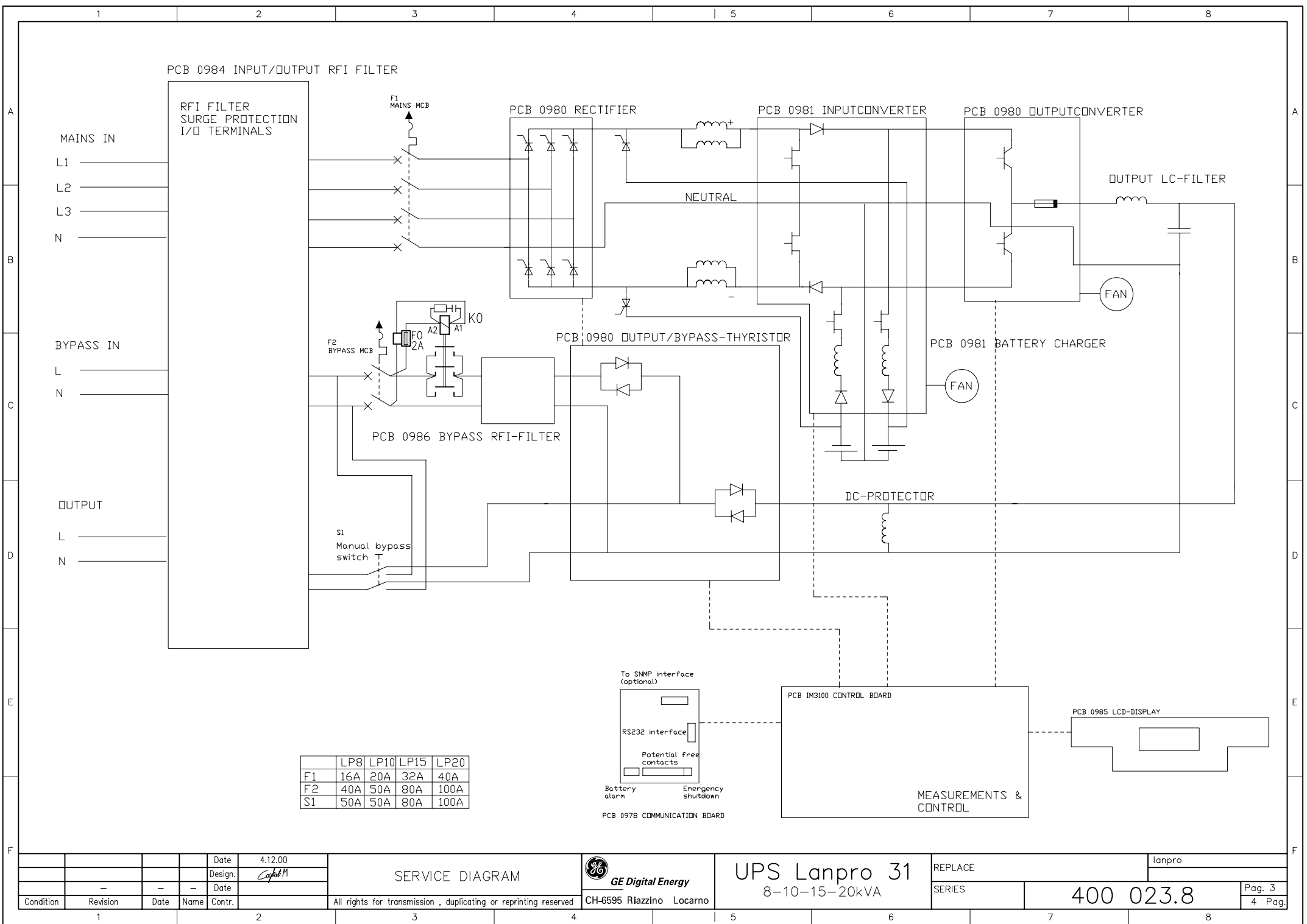
WIRING DIAGRAM



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	LP8	LP10	LP15	LP20
F1	16A	20A	32A	40A
F2	40A	50A	80A	100A
S1	50A	50A	80A	100A

SERVICE DIAGRAM



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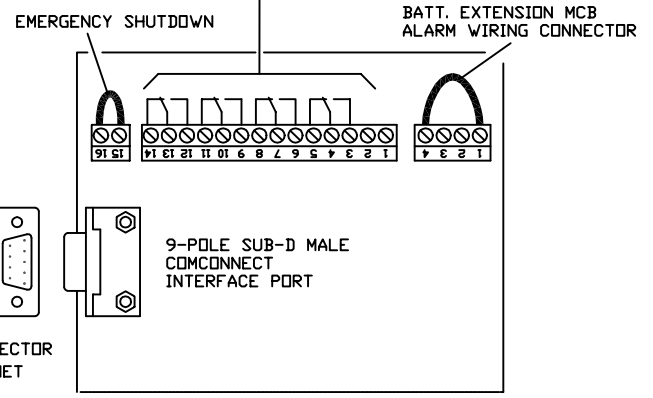
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400 023.8

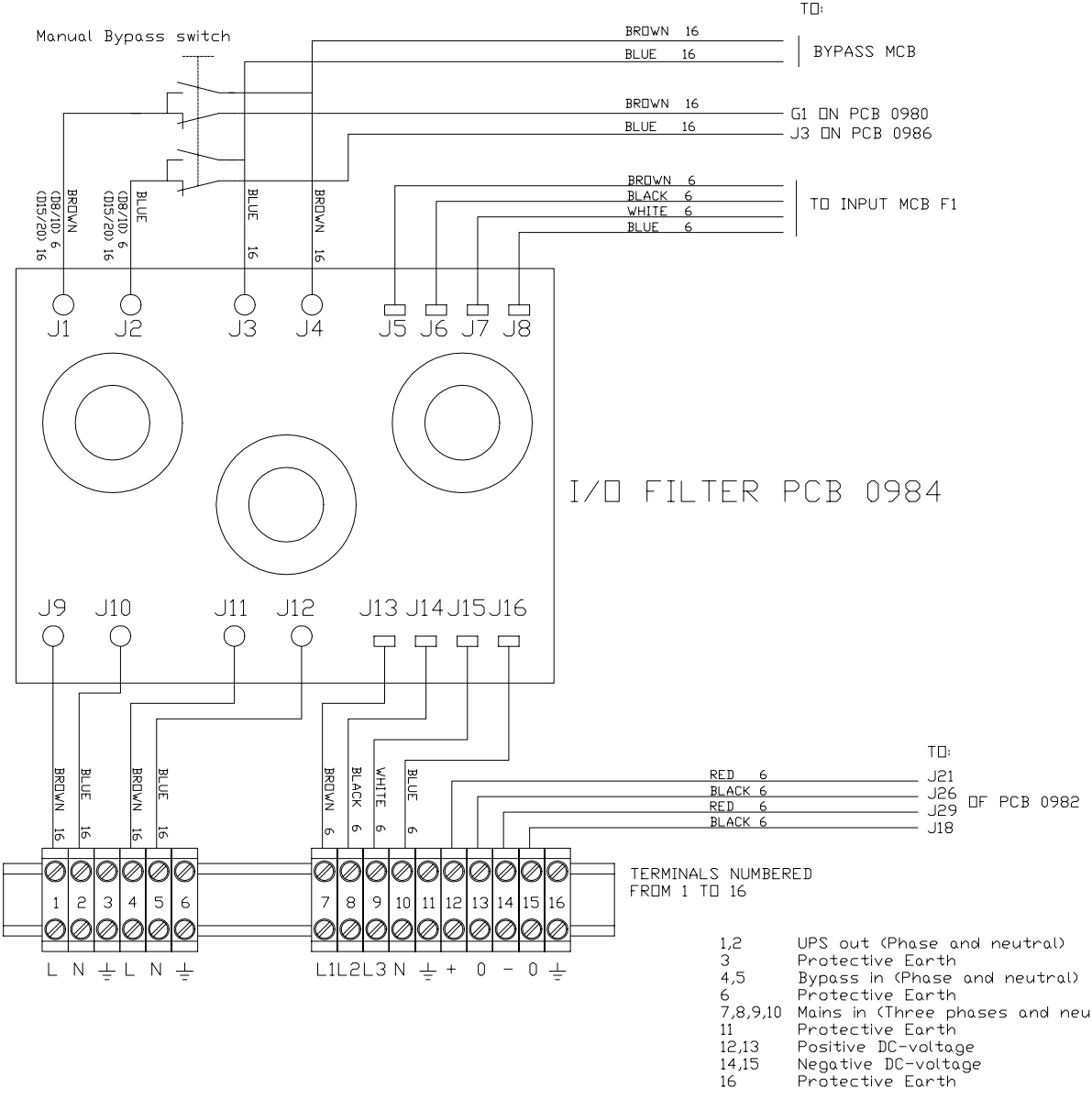
Pag. 3

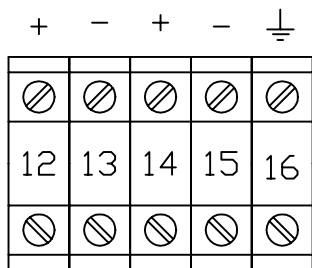
4 Pag.

- POTENTIALFREE CONTACTS
- 1 = COMMON
 - 2 = NOT USED
 - 3-5 = BYPASS ACTIVE
 - 6-8 = BATTERY LOW
 - 9-11 = GENERAL ALARM
 - 12-14 = UTILITY FAILURE



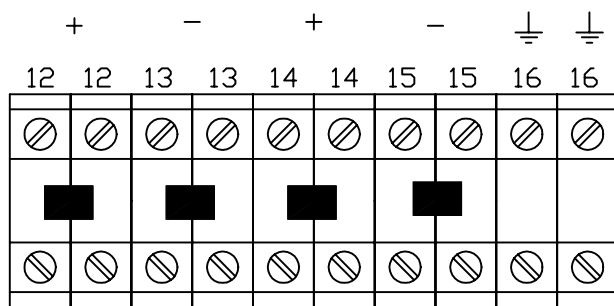
COMMUNICATION PCB 0978





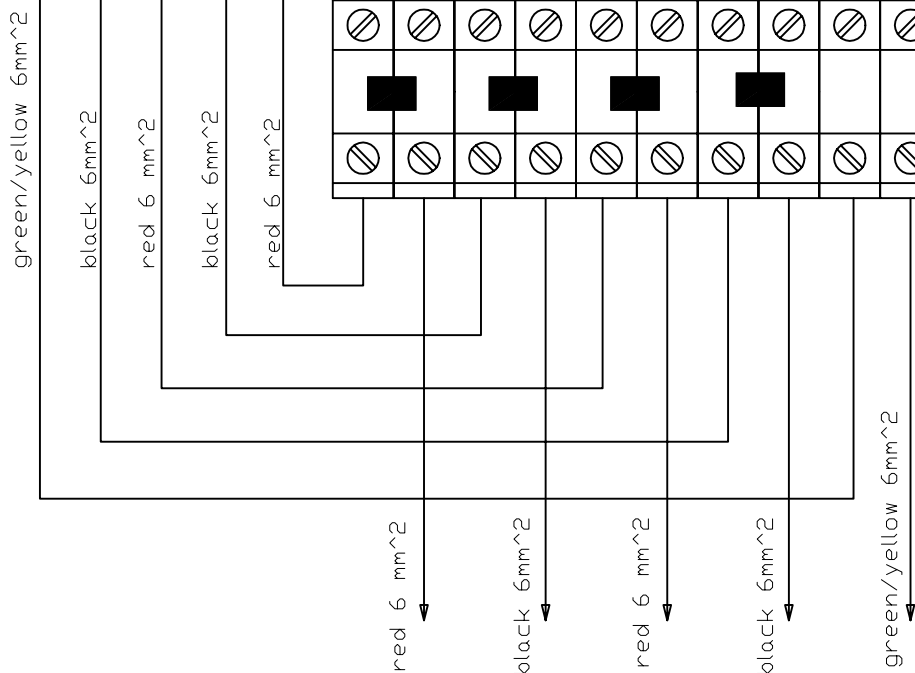
TERMINALS OF UPS

UPS



BATTERY PACK

TERMINALS OF BATTERY EXTENSION PACK

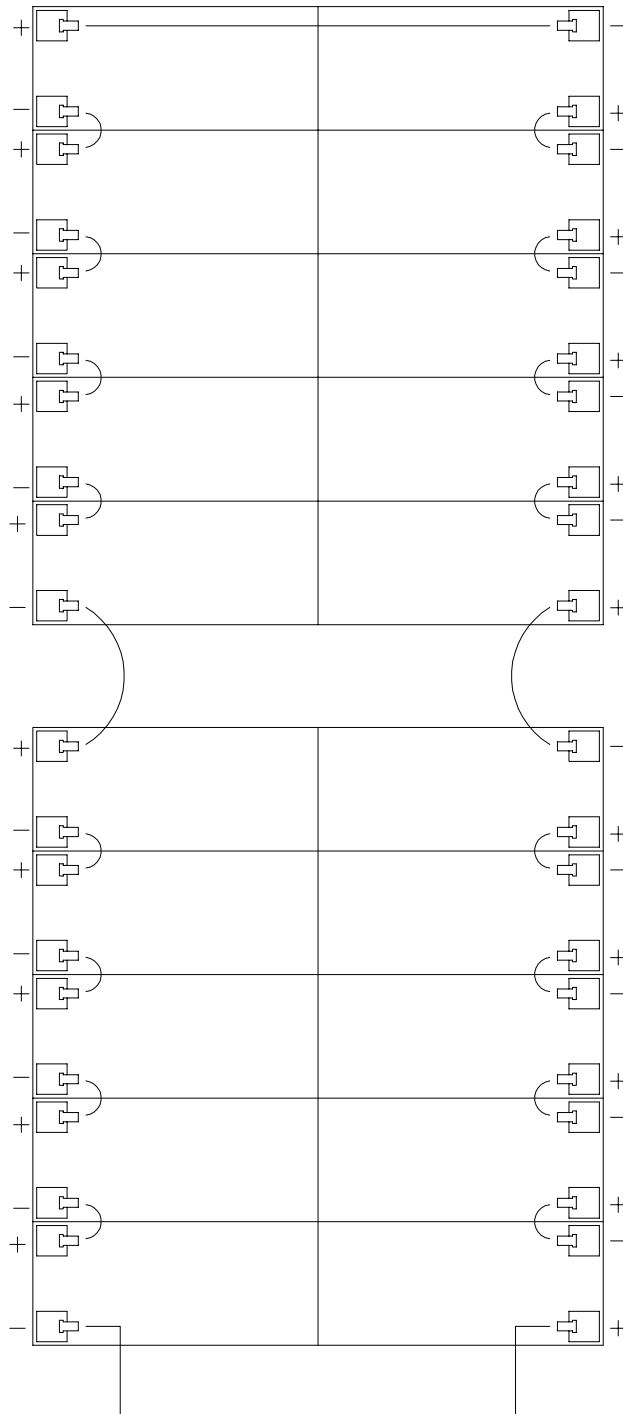


TO NEXT BATTERY EXTENSION PACK

BATT.PACK CONNECTION
LP31/10-15-20

DRAWN BY: ALLEX
DWG.No: 97-04-185 M
DATE: 20-08-97
REV: 0

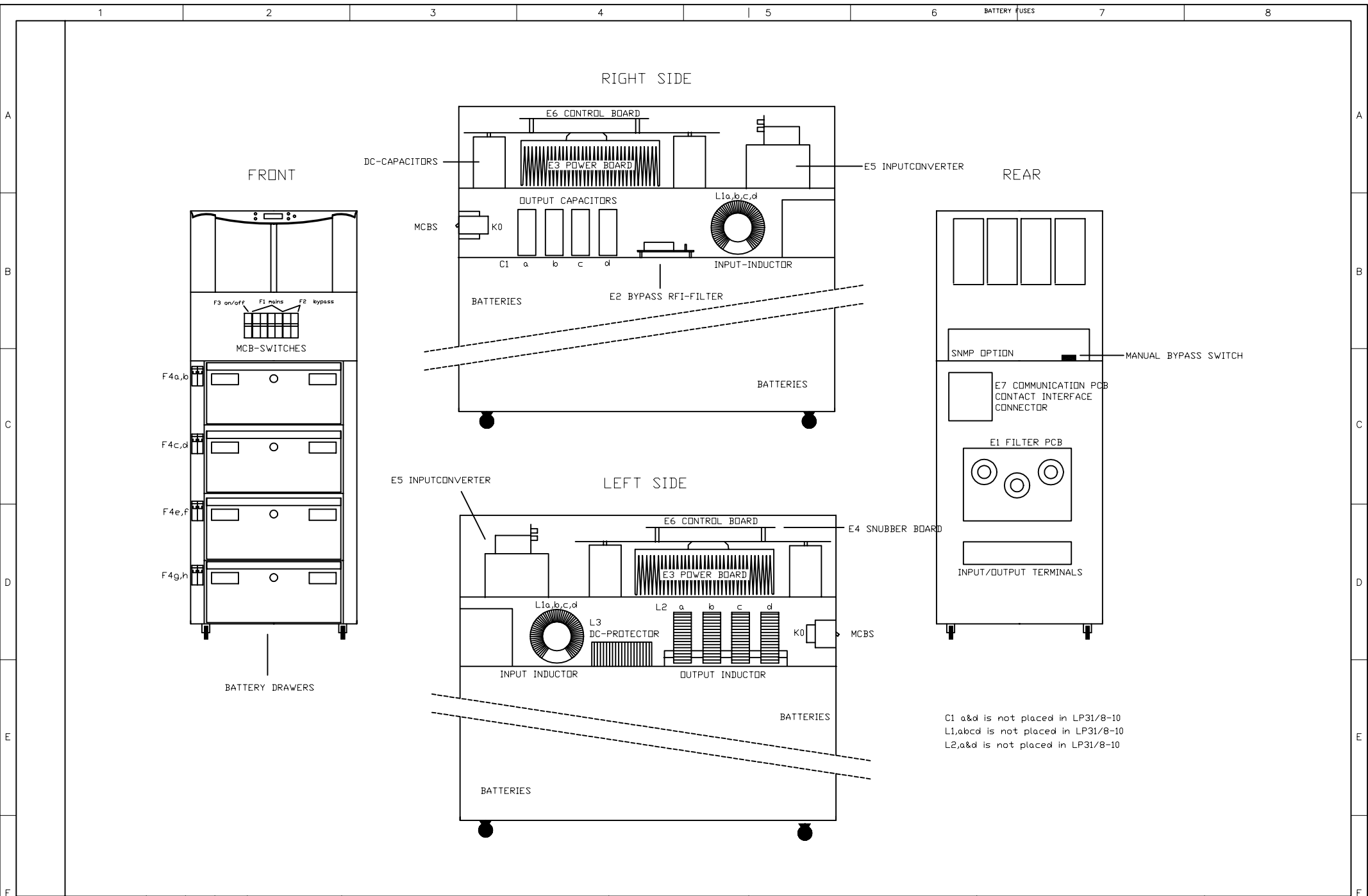
-				4.12.00	Cogliati M.
MODIFICA	POS.	VECCHIO	NUOVO	DATA	NOME
SOSTITUISCE		SOSTITUITO DA		NOME	DATA
UPS to battery cabinet connection Delta/Lanpro 31 8-10-15-20kVA				DIS.	<i>Cogliati M</i> 6.9.99
				CONTR.	
				delta SCALA	
 GE Digital Energy CH-6595 Riazzino Locarno				TOT.PAG.	2
				PAG.NO	1
				300 404.1	



To F4b,d,f and h

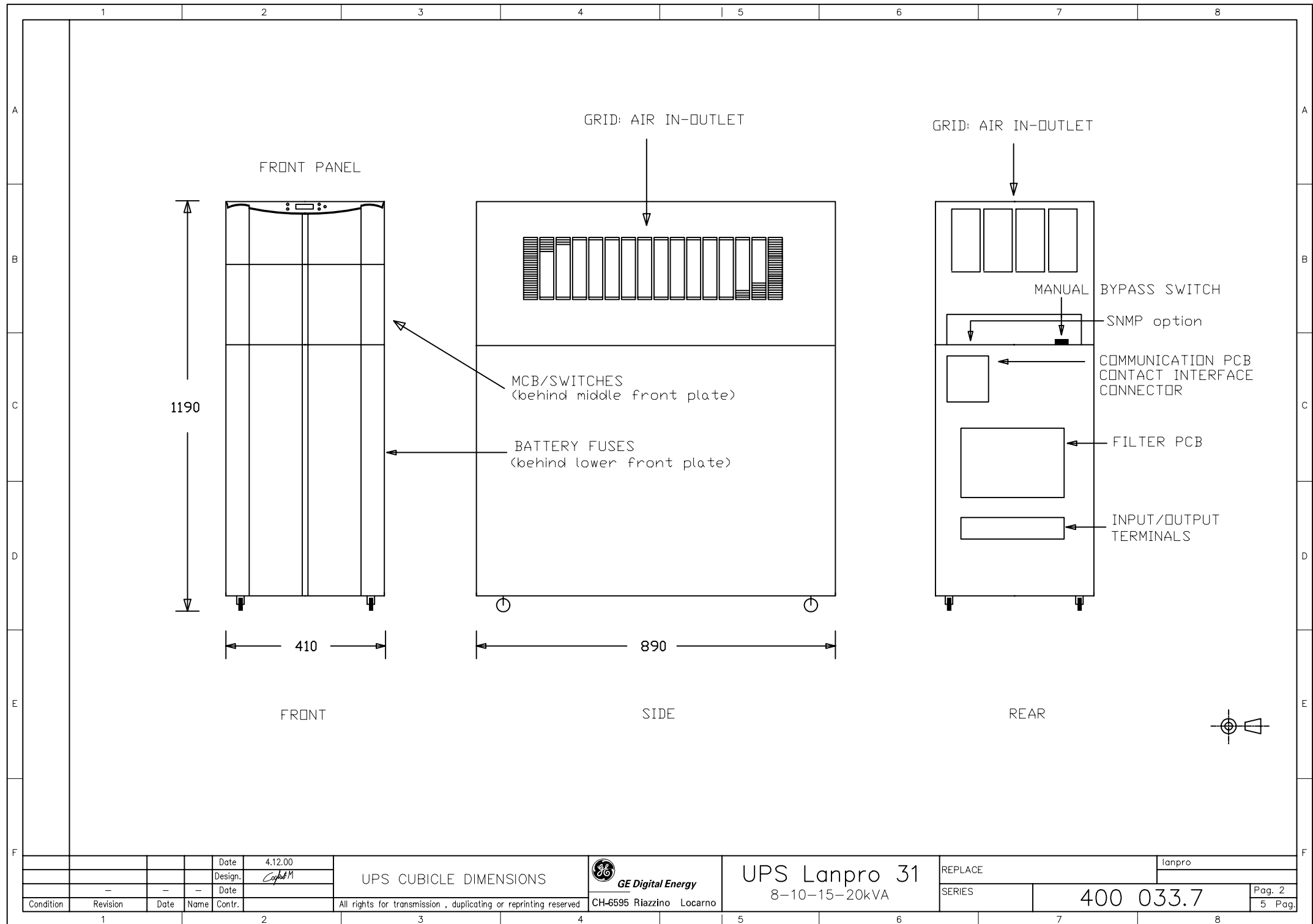
To F4a,c,e and g

				4.12.00	Cogliati M.	
01087				22.10.99	Cogliati M.	
MODIFICA	POS.	VECCHIO	NUOVO	DATA	NOME	
SOSTITUISCE	9704-195	SOSTITUITO DA			NOME	DATA
Installation of internal batteries pack Delta/Lanpro 31 8-10-15-20kVA				DIS.	<i>Cogliati M</i> 6.9.99	
				CONTR.		
				delta SCALA		
 GE Digital Energy CH-6595 Riazzino Locarno			TOT.PAG.	2	300 404.1	
			PAG.NO	2		



C1 a&d is not placed in LP31/8-10
 L1,abcd is not placed in LP31/8-10
 L2,a&d is not placed in LP31/8-10

				Date	4.12.00					lanpro	
				Design.	<i>Coyote M</i>	UPS GENERAL ARRANGEMENT		GE Digital Energy		REPLACE	
				Date				UPS Lanpro 31 8-10-15-20kVA		SERIES	
Condition	Revision	Date	Name	Contr.	All rights for transmission, duplicating or reprinting reserved			CH-6595 Riazzino Locarno		400 033.7	
1										Pag. 1 5 Pag.	



			Date	4.12.00
			Design.	<i>Copilot M</i>
			Date	
Condition	Revision	Date	Name	Contr.

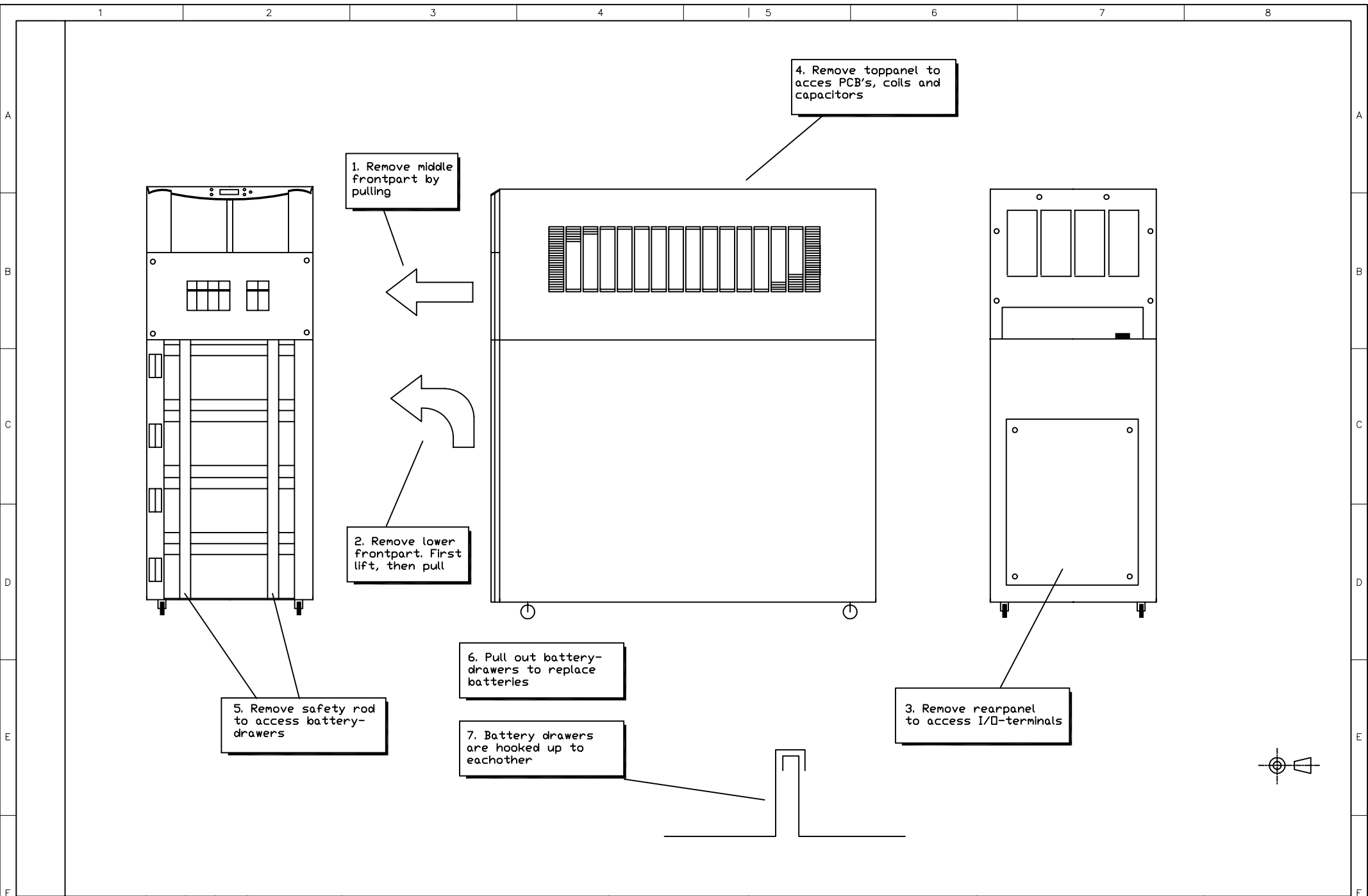
UPS CUBICLE DIMENSIONS

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REPLACE	lanpro
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	Pag. 2 5 Pag.



1. Remove middle frontpart by pulling

2. Remove lower frontpart. First lift, then pull


4. Remove toppanel to acces PCB's, coils and capacitors

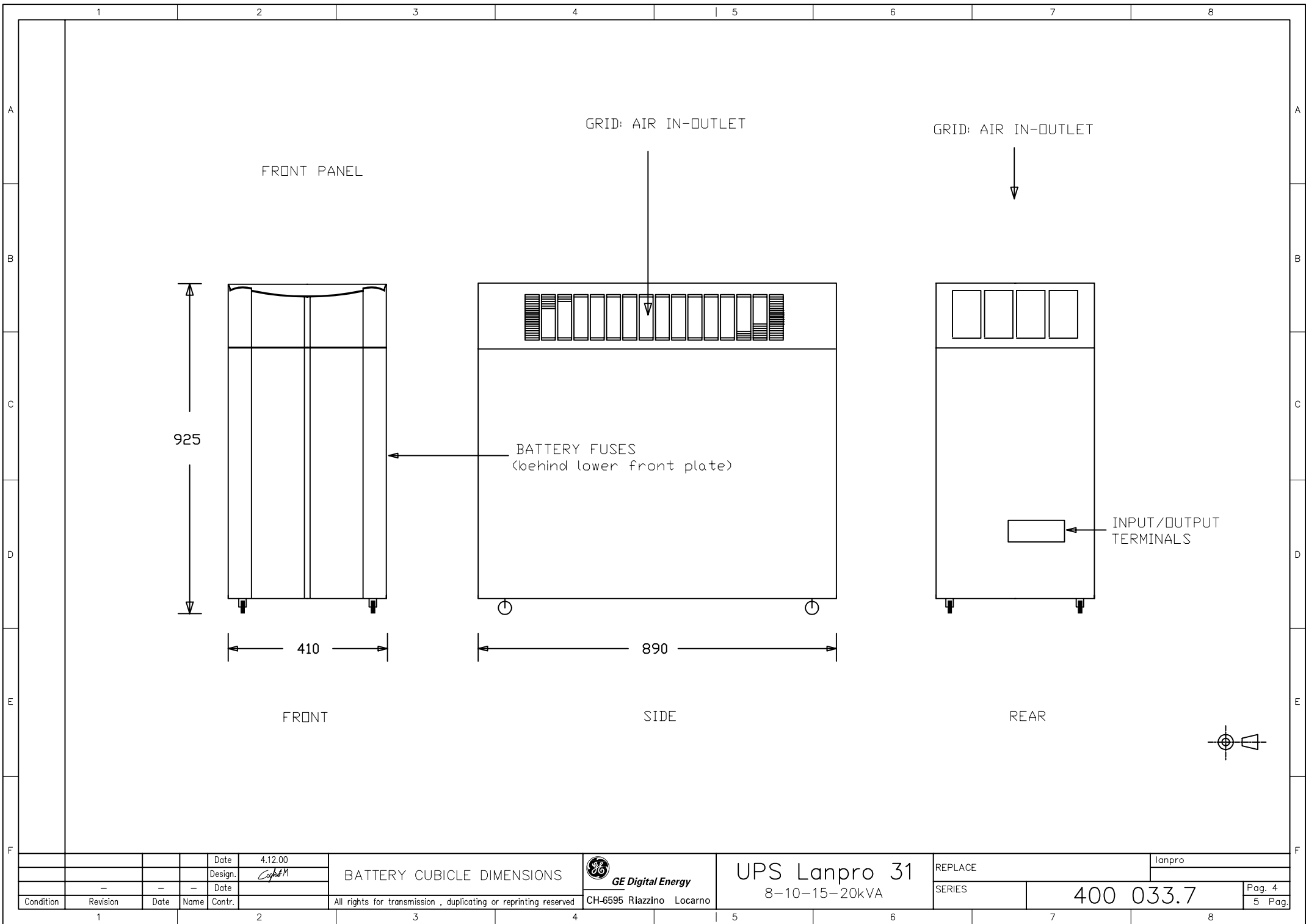
5. Remove safety rod to access battery-drawers

6. Pull out battery-drawers to replace batteries

7. Battery drawers are hooked up to eachother

3. Remove rearpanel to access I/O-terminals

				Date	4.12.00					lanpro	
				Design.	<i>Copilot M</i>	DISMANTLEMENT OF UPS CABINET		 GE Digital Energy		REPLACE	
				Date				UPS Lanpro 31		SERIES	
Condition	Revision	Date	Name	Contr.	All rights for transmission , duplicating or reprinting reserved		CH-6595 Riazzino Locarno	8-10-15-20kVA		400 033.7	
1					2	3	4	5	6	7	8
										Pag. 3	5 Pag.



Condition	Revision	Date	Name	Contr.
-	-	-	-	-

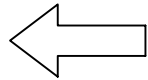
Date	4.12.00
Design.	<i>Copetti M</i>
Date	
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 CH-6595 Riazzino Locarno

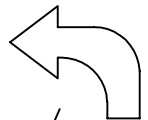
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SERIES	400 033.7
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1. Remove upper front part by pulling



2. Remove lower front part. First lift, then pull

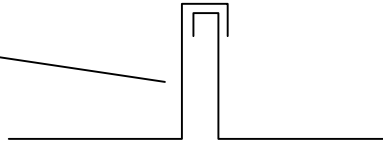
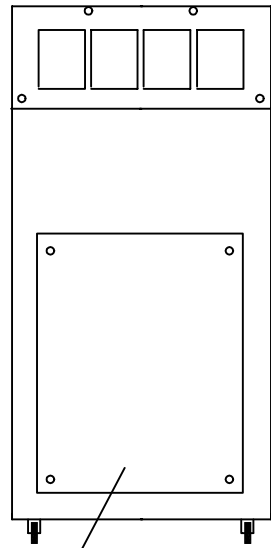
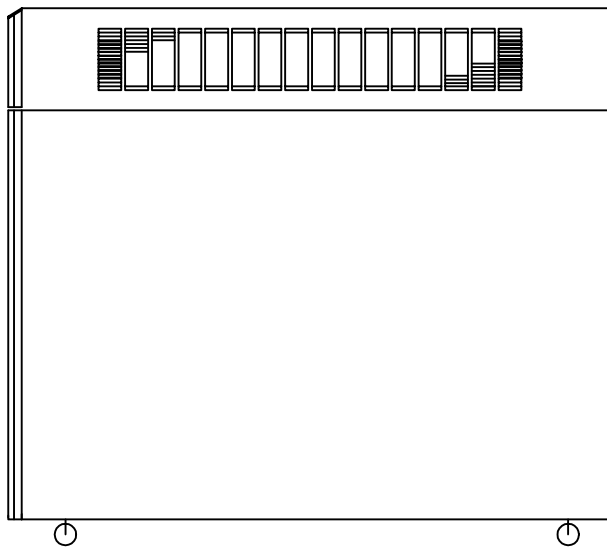
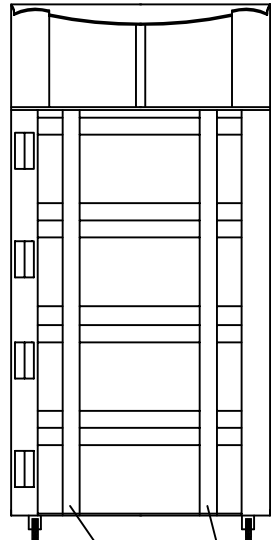


4. Remove safety rod to access battery-drawers

5. Pull out battery drawers to replace batteries

6. Battery drawers are hooked up to each other

3. Remove rear panel to access terminals



DISMANTLING DTA10
 DRAWN BY: ALLEX
 DWG.No: 98-03-010 M
 DATE: 20-01-98
 REV: 0

Condition	Revision	Date	Name	Contr.
		4.12.00		
			Design.	Copilot M
			Date	

DISMANTLEMENT OF BATTERY CABINET
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