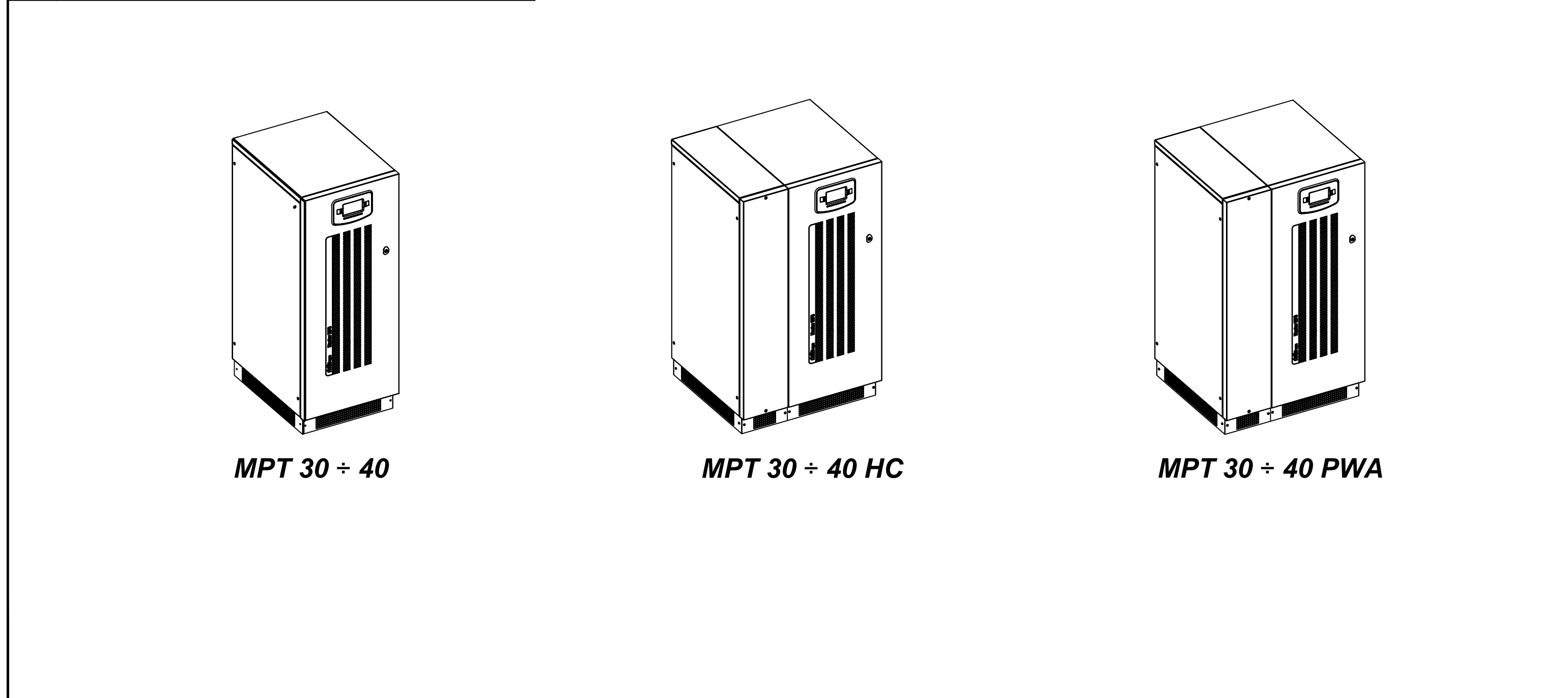


INDEX	
Pag.	Description
00	INDEX
01	MPT 30÷40 - INSTALLATION INSTRUCTIONS
02	MPT 30÷40 - INSTALLATION DETAILS
03	MPT 30÷40 HC - INSTALLATION INSTRUCTIONS
04	MPT 30÷40 HC - INSTALLATION DETAILS
05	MPT 30÷40 PWA - INSTALLATION INSTRUCTIONS
06	MPT 30÷40 PWA - INSTALLATION DETAILS
07	MPT 30÷40 / HC / PWA - CONNECTION DETAILS
08	MPT 30÷40 - POWER CONNECTION INFORMATION



MPT 30 ÷ 40

MPT 30 ÷ 40 HC

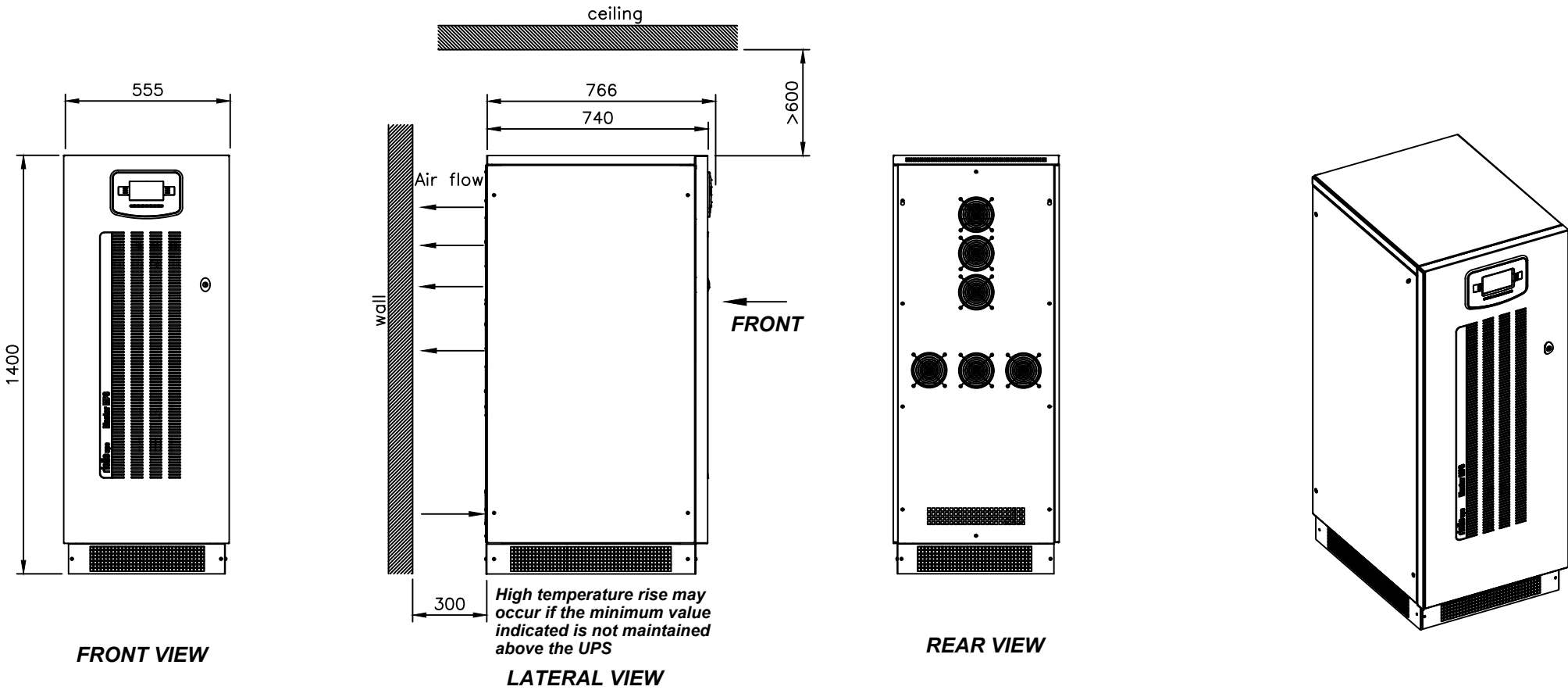
MPT 30 ÷ 40 PWA

CART ISO_A3

RPS	EDIT.	M.Mutti	APPR.	S.Pagnoncelli	DATA:	02/12/21	DRAW. No		REV.
	VARIATION:				OMNMPTK30RUENIB				00
	REPLACE: OMNMPTK30RUENIA_02				PAG. 00 CONT. 01				
NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice					TITLE: MAN MPT 30÷40 DRW EN INDEX				

	NOTES
Pos.	DESCRIPTION
01	CONTROL PANEL
02	DOCUMENTS POCKET
03	OPTION PANEL
04	RECTIFIER INPUT LINE SWITCH THREE POLES (SWIN)
05	BY-PASS LINE SWITCH FOUR POLES (SWBY)
06	MAINTENANCE SWITCH FOUR POLES (SWMB)
07	OUTPUT LINE SWITCH FOUR POLES(SWOUT)
08	FAN TYPE 160m/h
09	BOARD FUSES 4A 500V gG 10x38 (F1 ÷ F6)
10	FANS FUSES 4A 500V gG 10x38 (F7)
11	PARALLEL SIGNALS RJ45-FLAT ADAPTER CARD (Optional)
12	RJ 45 PARALLEL CONNECTORS
13	EPO
14	TERMINAL BLOCK FOR REMOTE SIGNAL
15	RS232-1 (CABLE SUPPLIED L=3m)
16	RS232-2 (CABLE NOT SUPPLIED)
17	SLOT-1 (MAIN)
18	SLOT-2 (AUX)
19	REMOTE ALARM (Optional)
20	BATTERY TEMPERATURE SENSOR (Optional)
21	INPUT RECTIFIER TERMINAL BOARD(L1-L2-L3)
22	INPUT BYPASS TERMINAL BOARD(L1B-L2B-L3B-N)
23	BATTERY POSITIVE TERMINAL BOARD
24	BATTERY NEGATIVE TERMINAL BOARD
25	OUTPUT TERMINAL BOARD(L1-L2-L3-N)
26	NEUTRAL INPUT TERMINAL BOARD
27	NEUTRAL OUTPUT TERMINAL BOARD
28	AUX FOR ESTERNAL MBY SWITCH
29	AUX FOR ESTERNAL LOAD SWITCH
30	TO BATTERY TEMPERATURE SENSOR
31	GROUND TERMINAL BOARD

INSTALLATION INSTRUCTIONS



Type	MPT 30	MPT 40
Power (kVA / kW)	30 / 27	40 / 36
Power loss load 100 / 50% (**) (kW)	2,5 / 1,1	3,1 / 1,4
Net dimension W x D x H (mm)	555 x 740 x 1400	
Shipping dimension W x D x H (mm)	600 x 800 x 1600	
Net weight (Kg)	315	335
Shipping weight (Kg)	335	355
Air flow (m ³ /h)	960	
Bearing surface of the cabinet (m ²)	0,00005	

(**) The values include the losses due to the maximum current allowed in battery at 100% load



WARNING

-The first connection to be made is the earth conductor.
THE MPT MUST NOT OPERATE WITHOUT AN EARTH CONNECTION
-For the sizing of conductors refer to the table, and according to domestic regulations and current standards

RPS

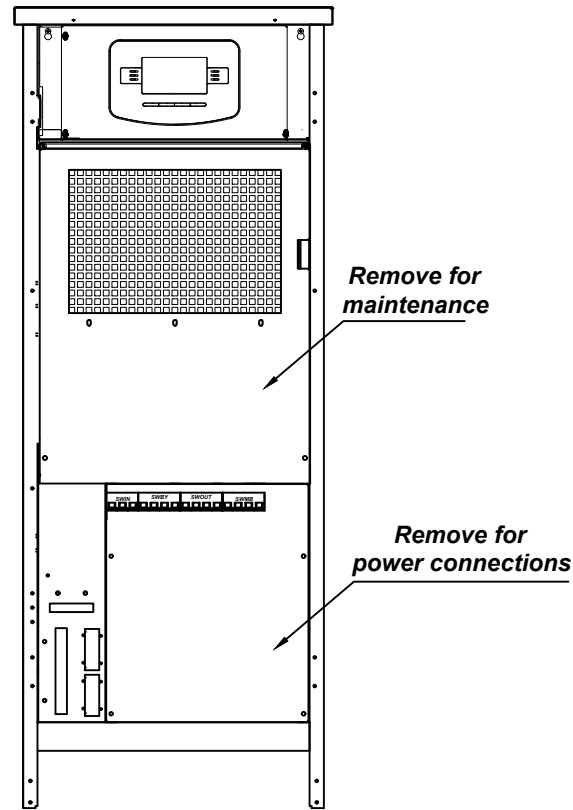
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NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

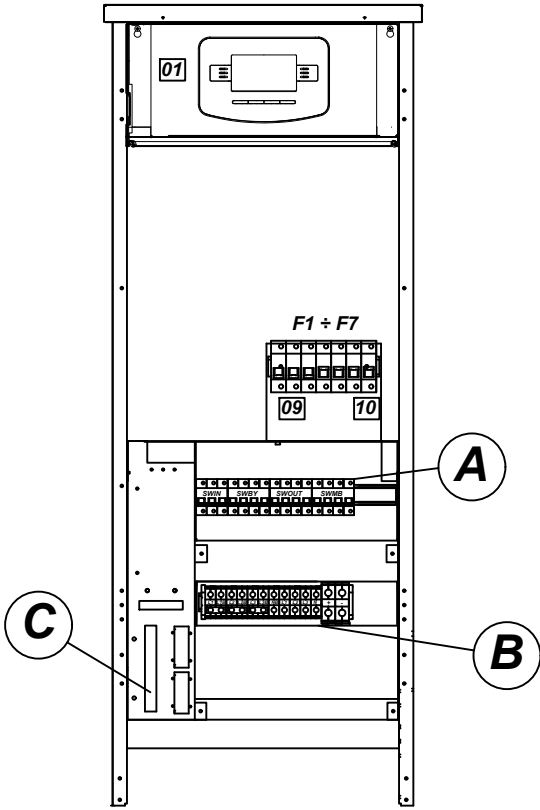
TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 – INSTALLATION INSTRUCTIONS

MPT 30 ÷ 40

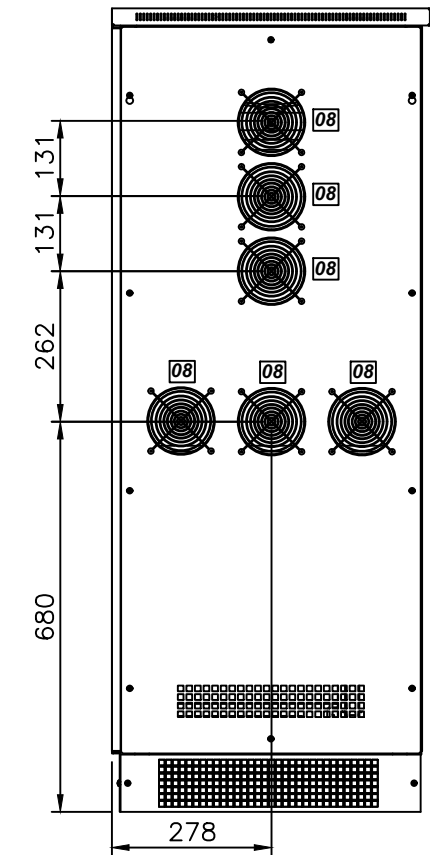
INSTALLATION DETAILS



Front open door view

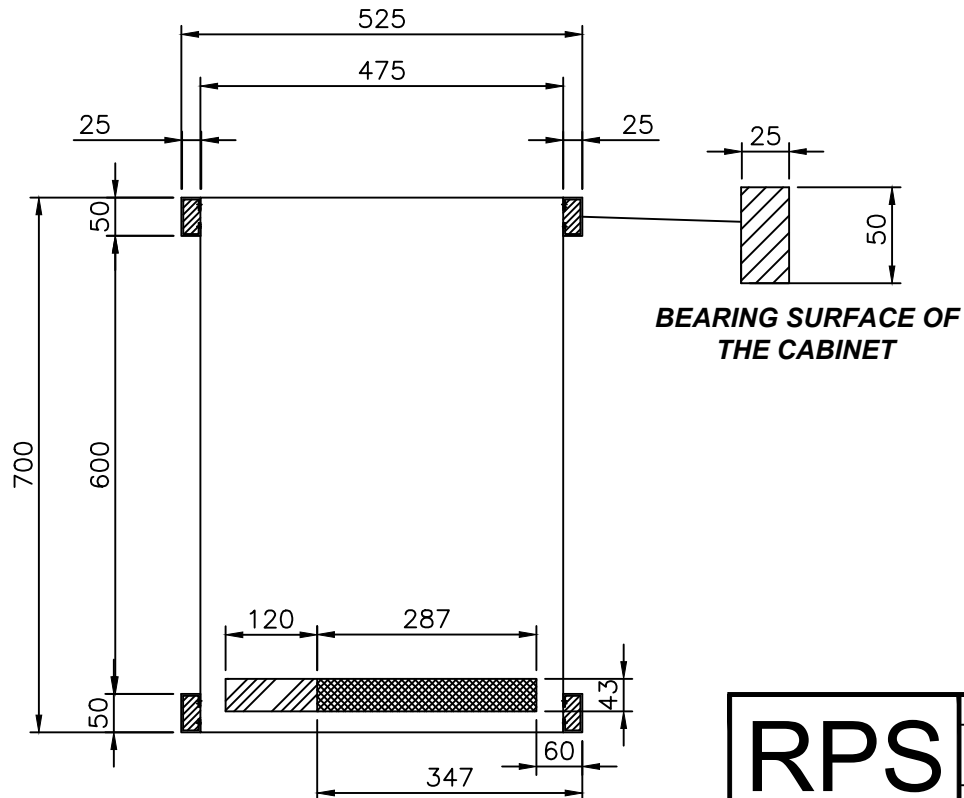


Front open internal panel view



Rear view

BOTTOM VIEW



BOTTOM VIEW

- =BEARING SURFACE OF THE CABINET
- =INPUT POWER CABLES ENTRY(287x42mm)
- =INPUT SIGNAL CABLES ENTRY(120x42mm)

MPT 30 ÷ 40

RPS

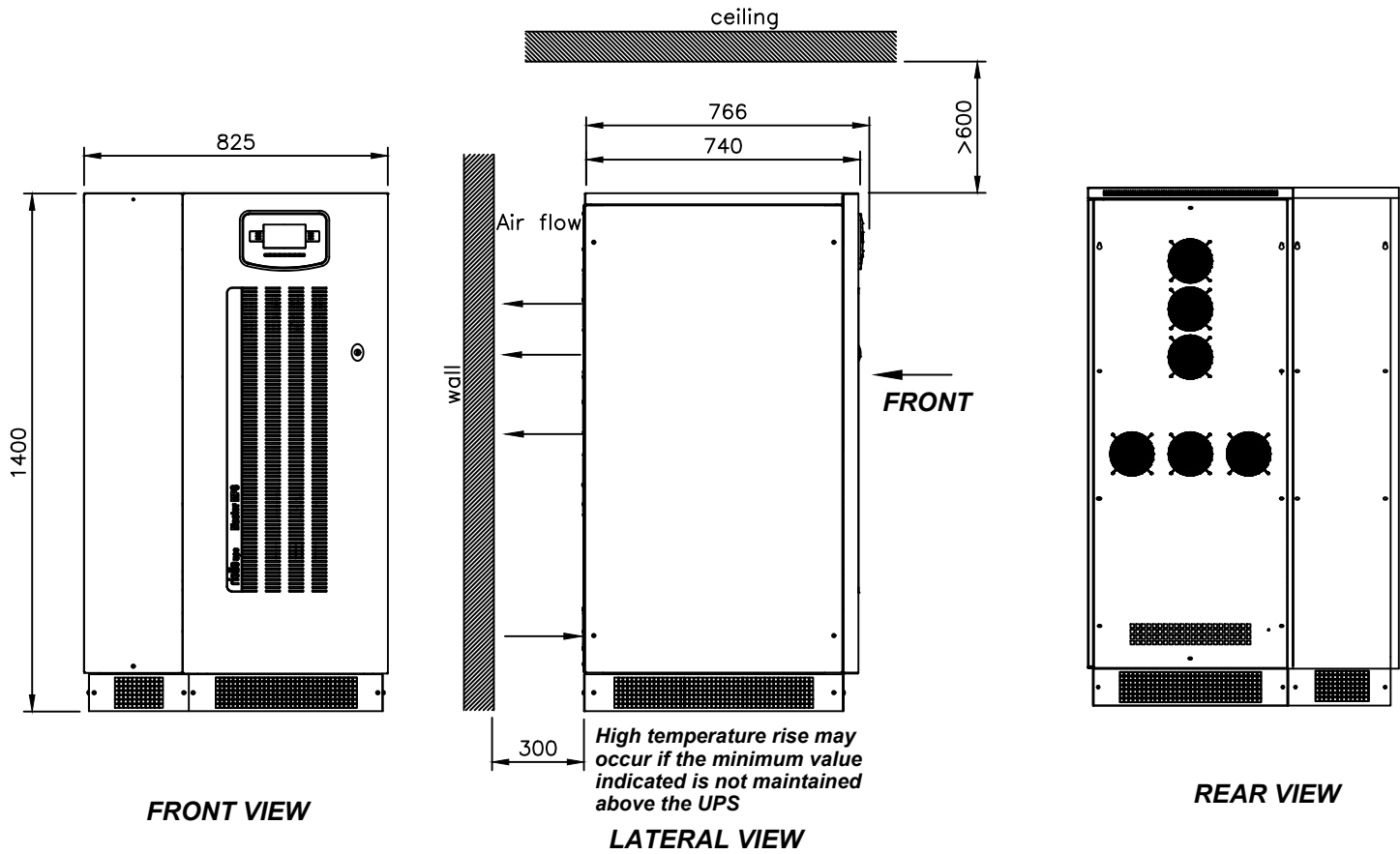
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VARIATION:				OMNMPTK30RUENIB			00
REPLACE:	OMNMPTK30RUENIA_02			PAG. 02 CONT. 03			

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 – INSTALLATION DETAILS

NOTES	
Pos.	DESCRIPTION
01	CONTROL PANEL
02	DOCUMENTS POCKET
03	OPTION PANEL
04	RECTIFIER INPUT LINE SWITCH THREE POLES (SWIN)
05	BY-PASS LINE SWITCH FOUR POLES (SWBY)
06	MAINTENANCE SWITCH FOUR POLES (SWMB)
07	OUTPUT LINE SWITCH FOUR POLES(SWOUT)
08	FAN TYPE 160m/h
09	BOARD FUSES 4A 500V gG 10x38 (F1 ÷ F6)
10	FANS FUSES 4A 500V gG 10x38 (F7)
11	PARALLEL SIGNALS RJ45-FLAT ADAPTER CARD (Optional)
12	RJ 45 PARALLEL CONNECTORS
13	EPO
14	TERMINAL BLOCK FOR REMOTE SIGNAL
15	RS232-1 (CABLE SUPPLIED L=3m)
16	RS232-2 (CABLE NOT SUPPLIED)
17	SLOT-1 (MAIN)
18	SLOT-2 (AUX)
19	REMOTE ALARM (Optional)
20	BATTERY TEMPERATURE SENSOR (Optional)
21	INPUT RECTIFIER TERMINAL BOARD(L1-L2-L3)
22	INPUT BYPASS TERMINAL BOARD(L1B-L2B-L3B-N)
23	BATTERY POSITIVE TERMINAL BOARD
24	BATTERY NEGATIVE TERMINAL BOARD
25	OUTPUT TERMINAL BOARD(L1-L2-L3-N)
26	NEUTRAL INPUT TERMINAL BOARD
27	NEUTRAL OUTPUT TERMINAL BOARD
28	AUX FOR ESTERNAL MBY SWITCH
29	AUX FOR ESTERNAL LOAD SWITCH
30	TO BATTERY TEMPERATURE SENSOR
31	GROUND TERMINAL BOARD
32	INPUT FILTER FUSES
	MPT 30 HC = 3x20A gG 10x38 MPT 40 HC = 3x32A gG 10x38

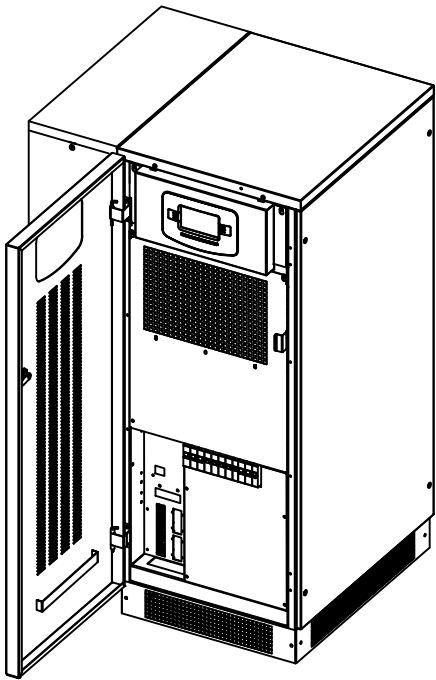
INSTALLATION INSTRUCTIONS



NOTE: 1000mm MINIMUM FRONT DISTANCE TO THE WALL
NOTE: Do not mount lateral base grilles when there are cabinet side by side
Leave at least one of the three sides(right,rear,left) of the cabinet free

Type		MPT 30 HC	MPT 40 HC
Power	(kVA / kW)	30 / 27	40 / 36
Power loss load 100 / 50% (**)	(kW)	2,8 / 1,2	3,6 / 1,5
Net dimension	W x D x H (mm)	825 x 740 x 1400	
Shipping dimension	W x D x H (mm)	900 x 800 x 1600	
Net weight	(Kg)	345	365
Shipping weight	(Kg)	370	390
Air flow	(m ³ /h)	960	
Bearing surface of the cabinet	(m ²)	0,0001	

(**) The values include the losses due to the maximum current allowed in battery at 100% load



MPT 30 ÷ 40 HC



WARNING

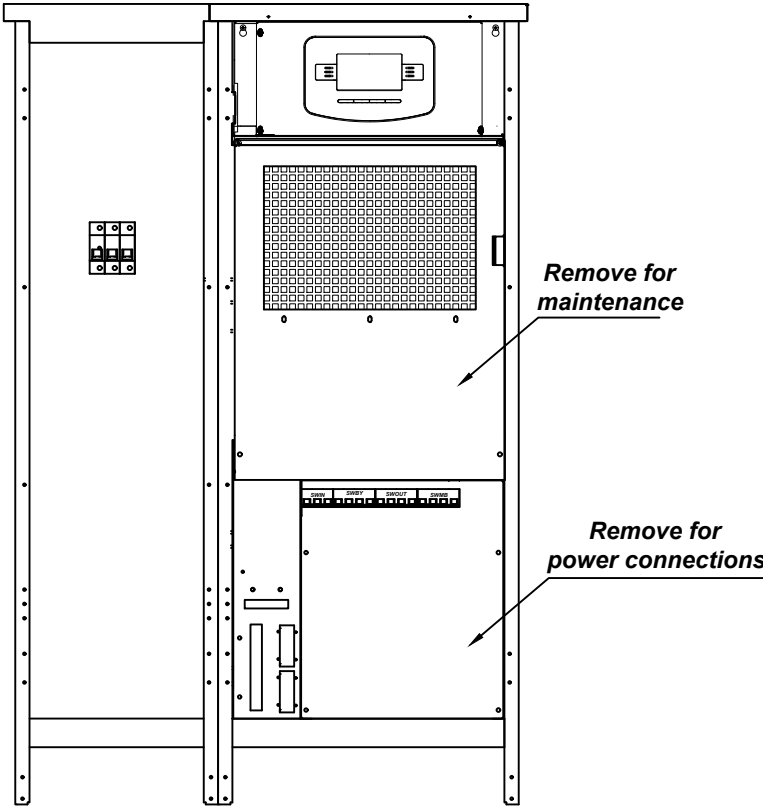
-The first connection to be made is the earth conductor.
THE MPT MUST NOT OPERATE WITHOUT AN EARTH CONNECTION
-For the sizing of conductors refer to the table, and according to domestic regulations and current standards

RPS

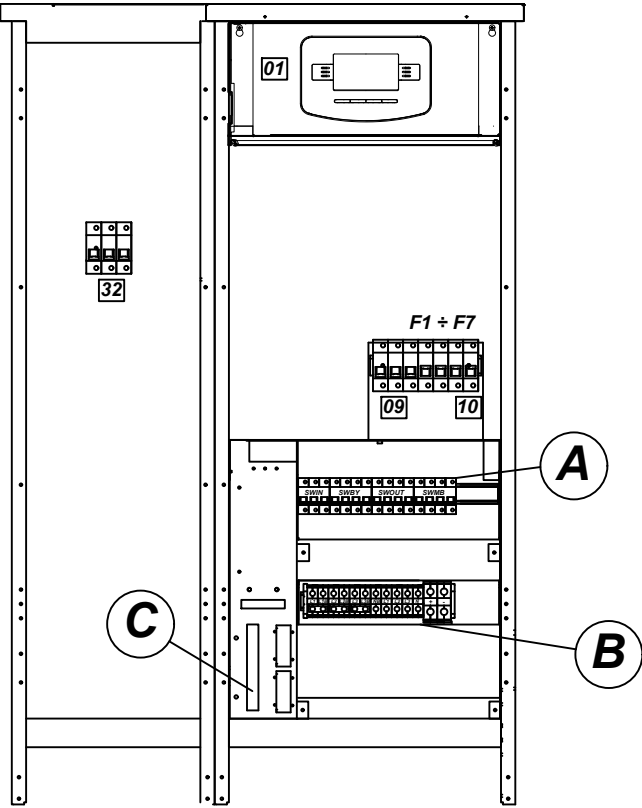
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VARIATION:				OMNMPTK30RUENIB			00
REPLACE: OMNMPTK30RUENIA_02				PAG. 03 CONT. 04			

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice
TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 HC – INSTALLATION INSTRUCTIONS

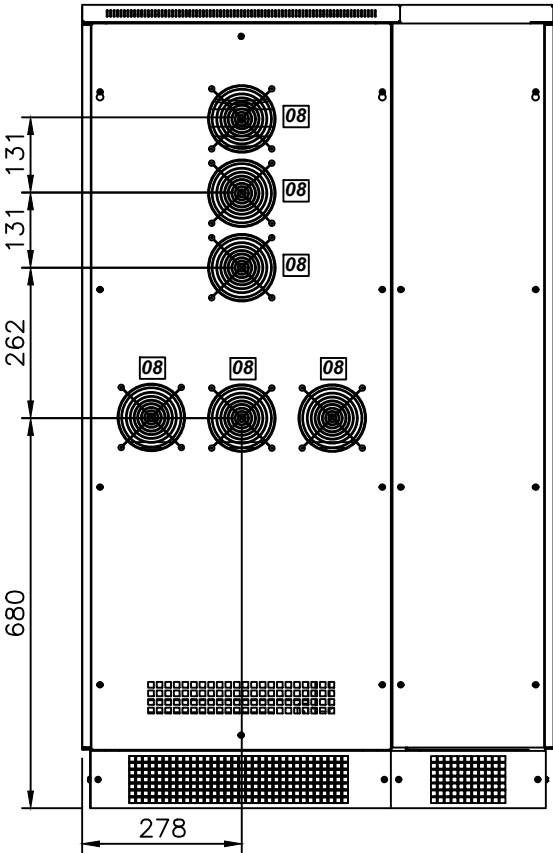
INSTALLATION DETAILS



Front open door view

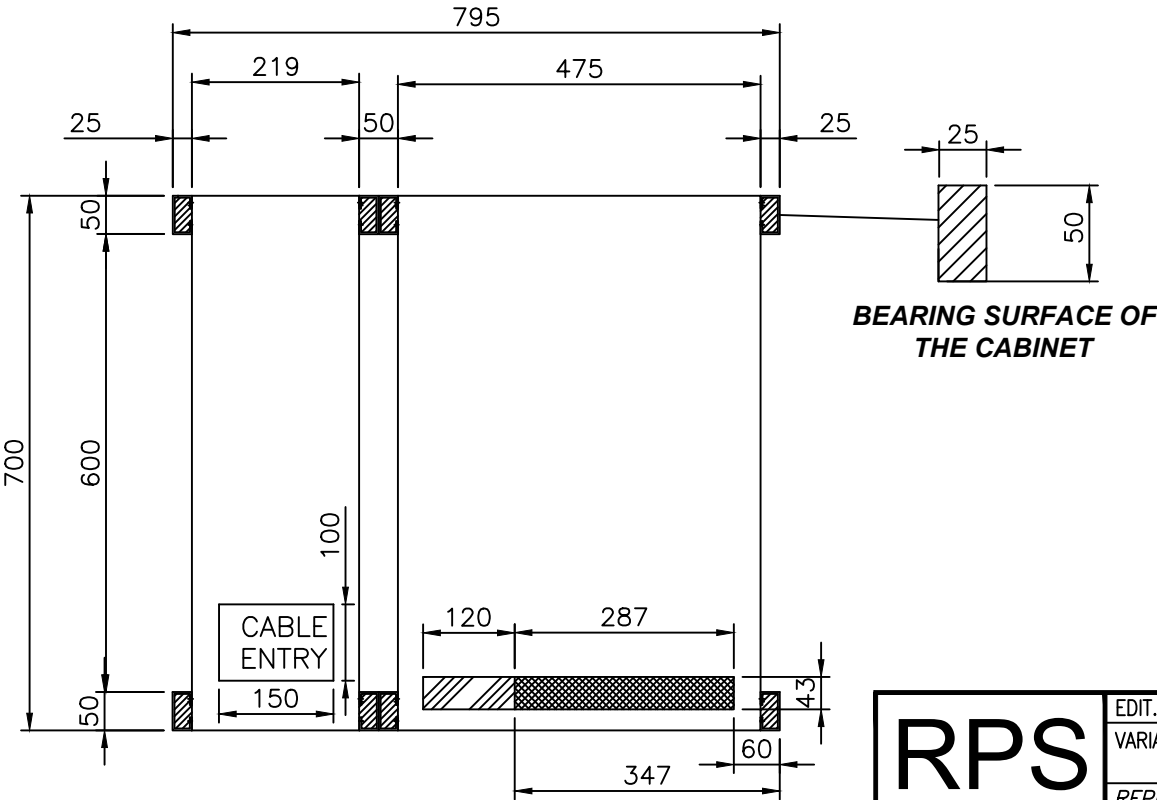


Front open internal panel view



Rear view

BOTTOM VIEW



BEARING SURFACE OF THE CABINET

- =BEARING SURFACE OF THE CABINET
- =INPUT POWER CABLES ENTRY(287x42mm)
- =INPUT SIGNAL CABLES ENTRY(120x42mm)

MPT 30 ÷ 40 HC

RPS

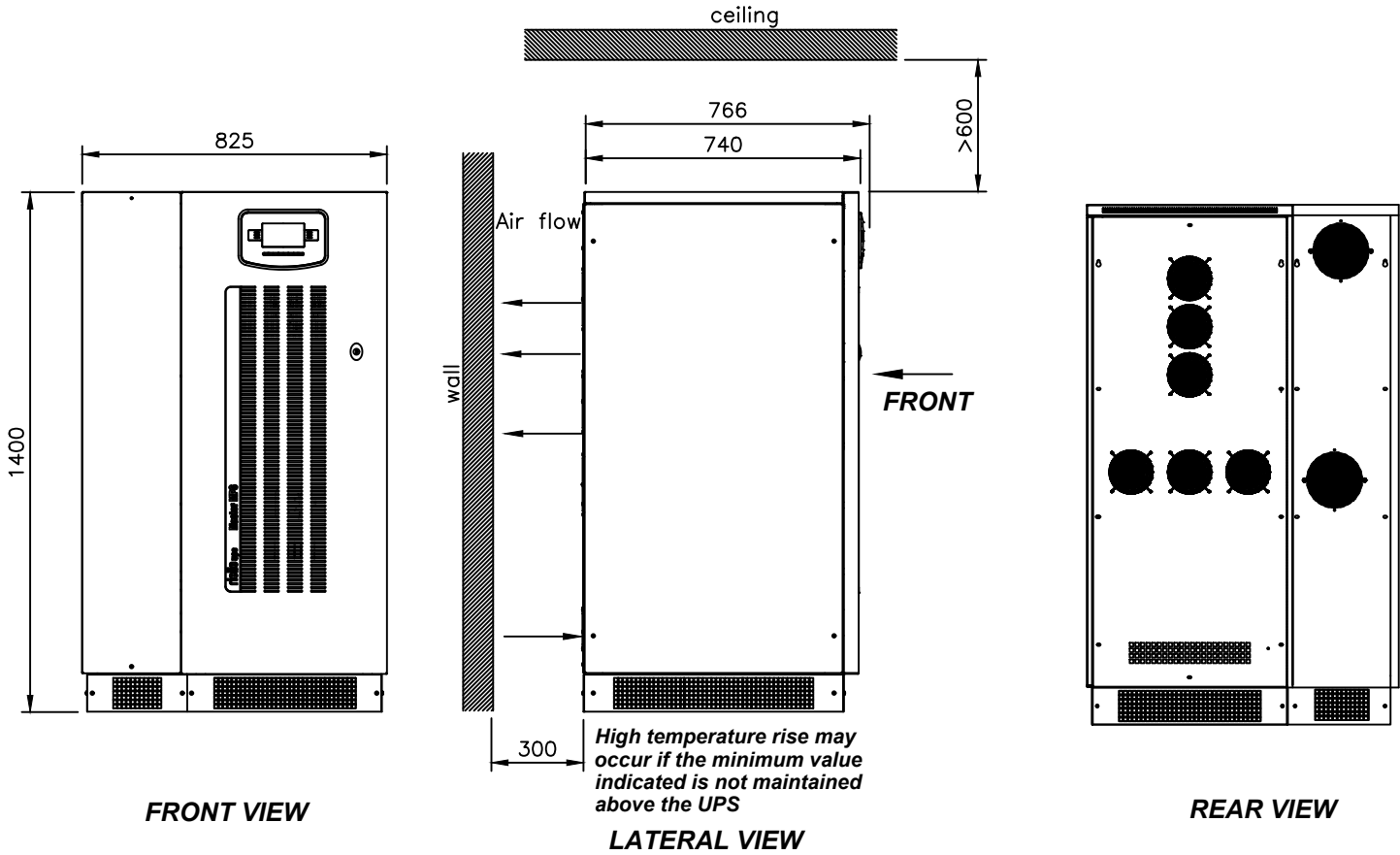
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VARIATION:						OMNMPTK30RUENIB	00
REPLACE:	OMNMPTK30RUENIA_02					PAG. 04	CONT. 05

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 HC – INSTALLATION DETAILS

	NOTES
Pos.	DESCRIPTION
01	CONTROL PANEL
02	DOCUMENTS POCKET
03	OPTION PANEL
04	RECTIFIER INPUT LINE SWITCH THREE POLES (SWIN)
05	BY-PASS LINE SWITCH FOUR POLES (SWBY)
06	MAINTENANCE SWITCH FOUR POLES (SWMB)
07	OUTPUT LINE SWITCH FOUR POLES(SWOUT)
08	FAN TYPE 160m/h
09	BOARD FUSES 4A 500V gG 10x38 (F1 ÷ F6)
10	FANS FUSES 4A 500V gG 10x38 (F7)
11	PARALLEL SIGNALS RJ45-FLAT ADAPTER CARD (Optional)
12	RJ 45 PARALLEL CONNECTORS
13	EPO
14	TERMINAL BLOCK FOR REMOTE SIGNAL
15	RS232-1 (CABLE SUPPLIED L=3m)
16	RS232-2 (CABLE NOT SUPPLIED)
17	SLOT-1 (MAIN)
18	SLOT-2 (AUX)
19	REMOTE ALARM (Optional)
20	BATTERY TEMPERATURE SENSOR (Optional)
21	INPUT RECTIFIER TERMINAL BOARD(L1-L2-L3)
22	INPUT BYPASS TERMINAL BOARD(L1B-L2B-L3B-N)
23	BATTERY POSITIVE TERMINAL BOARD
24	BATTERY NEGATIVE TERMINAL BOARD
25	OUTPUT TERMINAL BOARD(L1-L2-L3-N)
26	NEUTRAL INPUT TERMINAL BOARD
27	NEUTRAL OUTPUT TERMINAL BOARD
28	AUX FOR ESTERNAL MBY SWITCH
29	AUX FOR ESTERNAL LOAD SWITCH
30	TO BATTERY TEMPERATURE SENSOR
31	GROUND TERMINAL BOARD
32	
33	RESISTOR 5 Ohm
34	FUSES 50A 500V gG 22x58 (F50 - F51)
35	FANS FUSES 2A 500V gG 10x38 (F52)
36	FAN TYPE 325m/h

INSTALLATION INSTRUCTIONS



NOTE: 1000mm MINIMUM FRONT DISTANCE TO THE WALL
NOTE: Do not mount lateral base grilles when there are cabinet side by side
Leave at least one of the three sides(right,rear,left) of the cabinet free

Type		MPT 30 PWA	MPT 40 PWA
Power	(kVA / kW)	30 / 27	40 / 36
Power loss load 100 / 50% (**)	(kW)	2,8 / 1,2	3,6 / 1,5
Power Absorber losses	(kW)	4kW Continuous / 40kW 5 sec.	
Net dimension	W x D x H (mm)	825 x 740 x 1400	
Shipping dimension	W x D x H (mm)	900 x 800 x 1600	
Net weight	(Kg)	365	385
Shipping weight	(Kg)	390	410
Air flow	(m ³ /h)	1285	
Bearing surface of the cabinet	(m ²)	0,0001	

(**) The values include the losses due to the maximum current allowed in battery at 100% load



WARNING

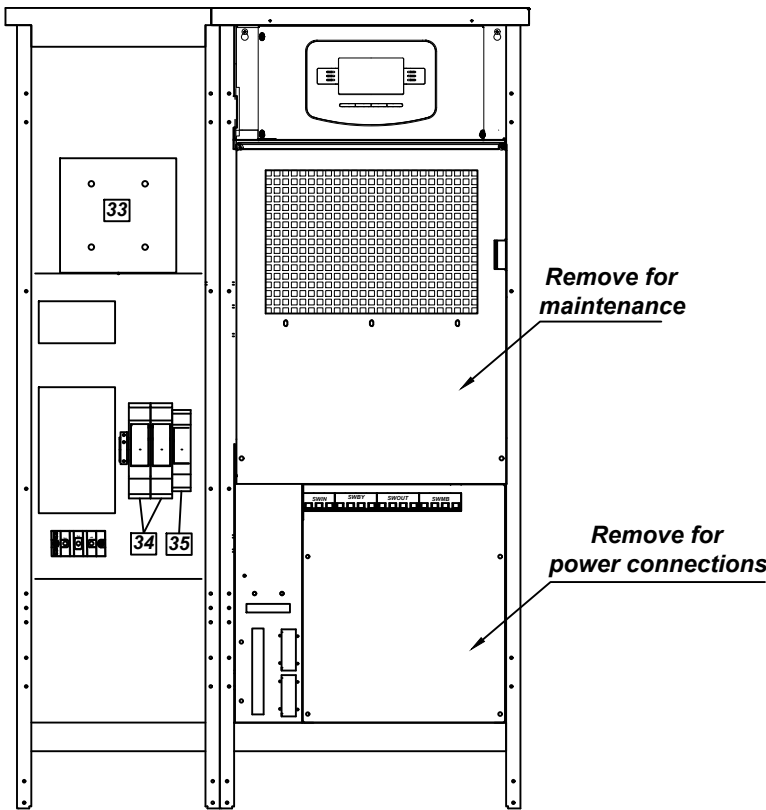
-The first connection to be made is the earth conductor.
THE MPT MUST NOT OPERATE WITHOUT AN EARTH CONNECTION
-For the sizing of conductors refer to the table, and according to domestic regulations and current standards

RPS

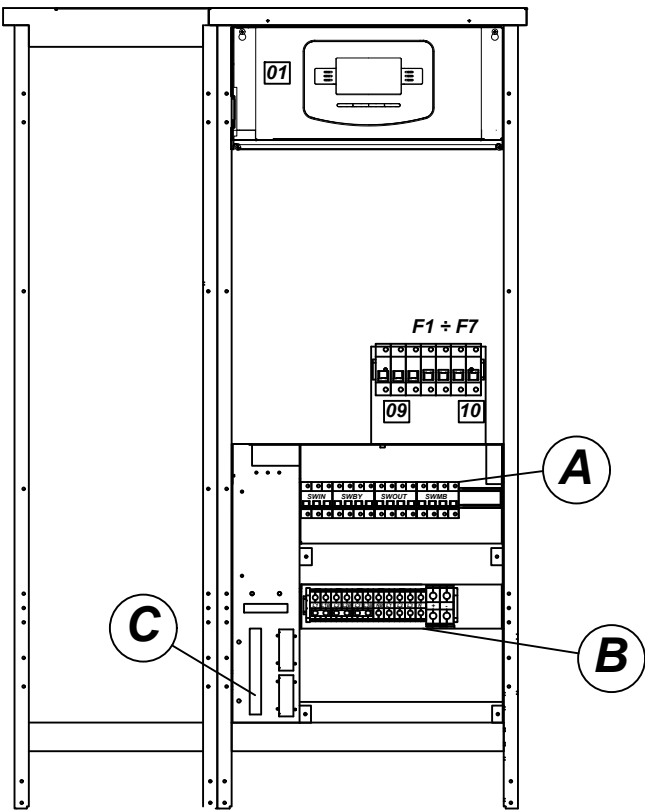
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REPLACE: OMNMPTK30RUENIA_02				PAG. 05 CONT. 06			

NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice
TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 PWA – INSTALLATION INSTRUCTIONS

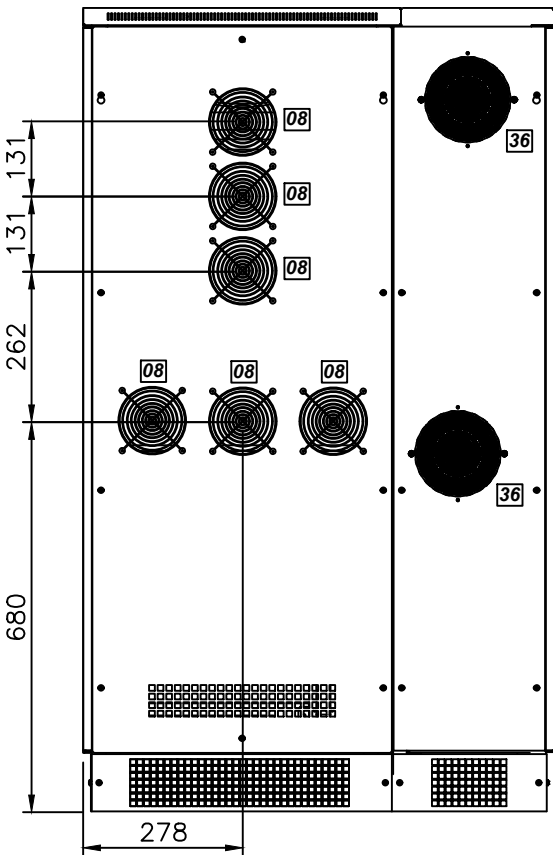
INSTALLATION DETAILS



Front open door view

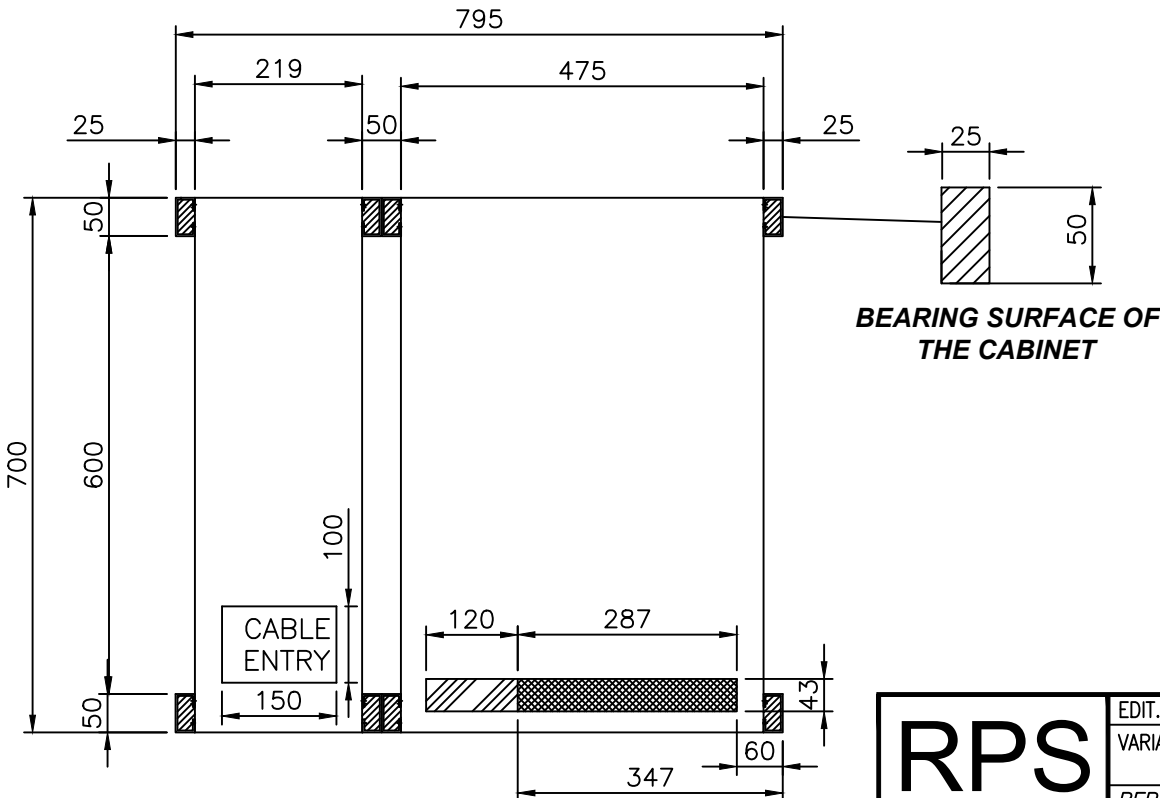


Front open internal panel view



Rear view

BOTTOM VIEW



BEARING SURFACE OF THE CABINET

- =BEARING SURFACE OF THE CABINET
- =INPUT POWER CABLES ENTRY(287x42mm)
- =INPUT SIGNAL CABLES ENTRY(120x42mm)

MPT 30 ÷ 40 PWA

RPS

EDIT.	M.Mutti	APPR.	S.Pagnoncelli	DATA:	02/12/21	DRAW. No	REV.
VARIATION:						OMNMPTK30RUENIB	00
REPLACE:	OMNMPTK30RUENIA_02					PAG. 06	CONT. 07

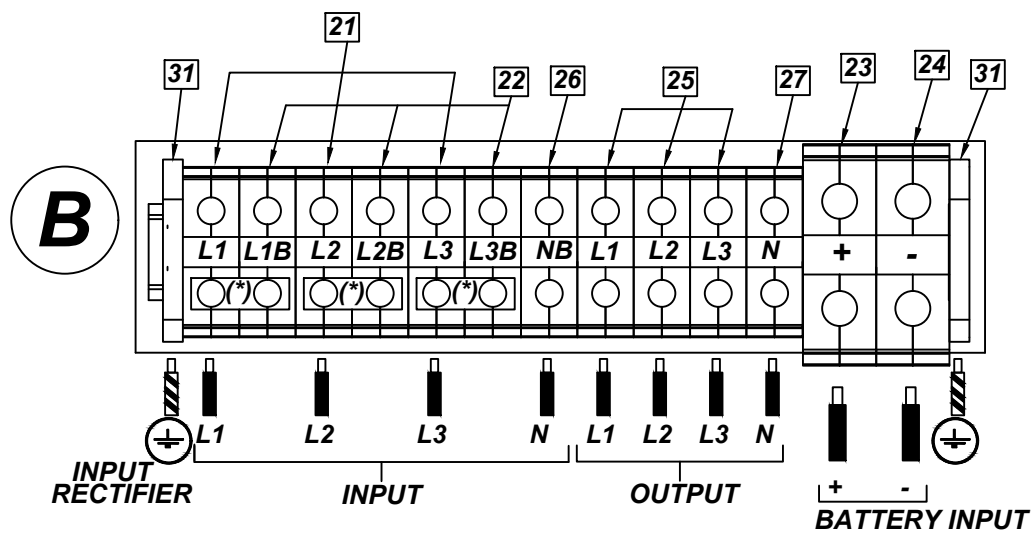
NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice

TITLE: MAN MPT 30÷40 DRW EN
MPT 30÷40 PWA – INSTALLATION DETAILS

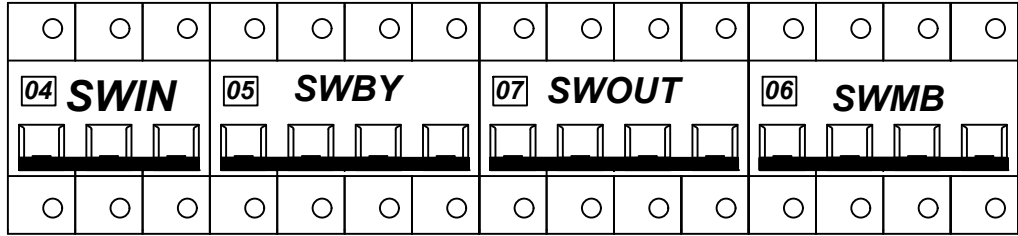
CONNECTION DETAILS

SIGNAL CONNECTIONS
DETAIL

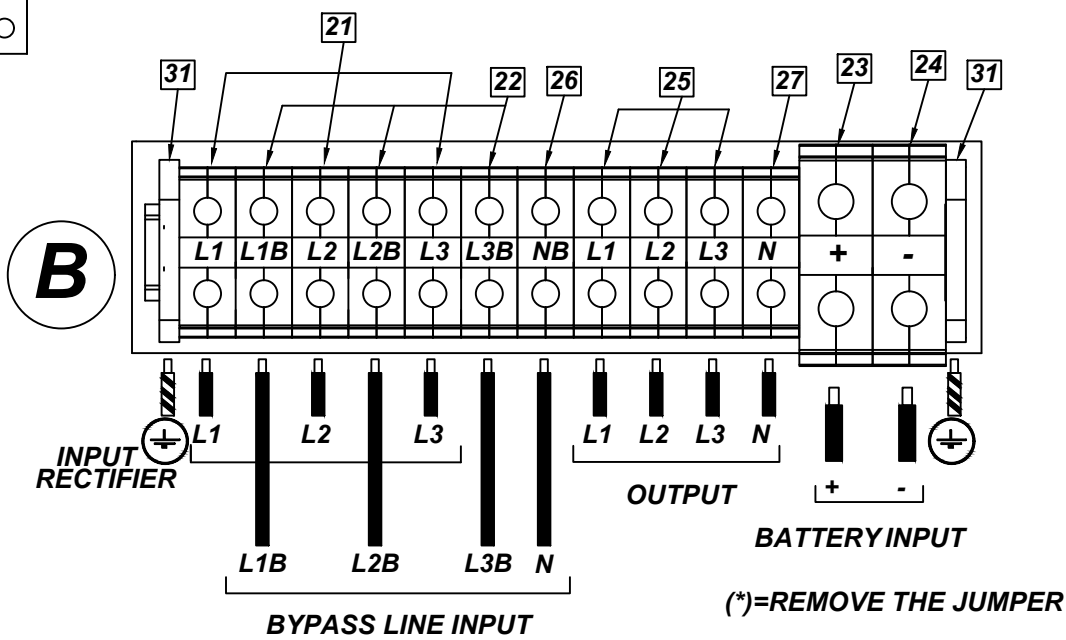
SINGLE LINE INPUT



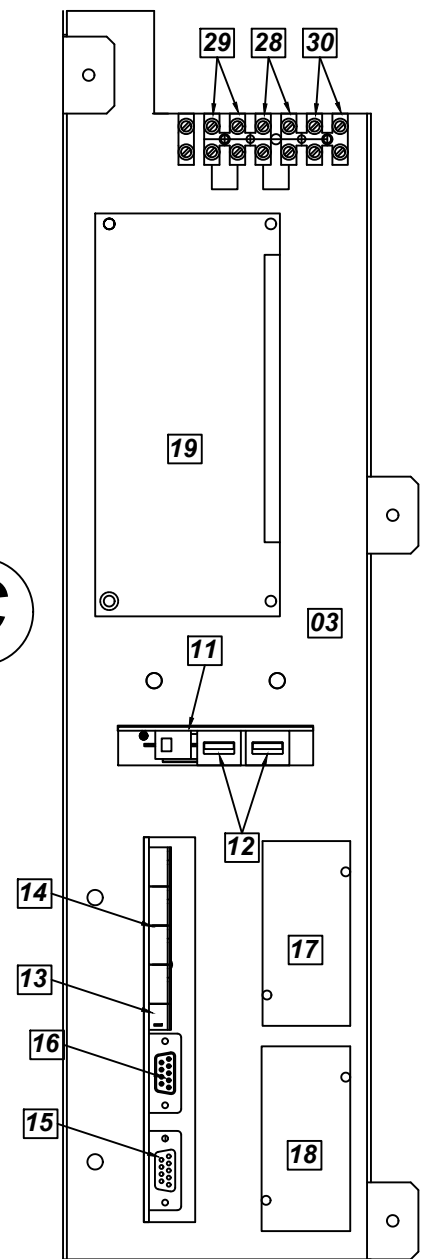
SWITCH DETAIL



BYPASS SEPARATE CONNECTIONS



C



- 12 = SEE THE USER MANUAL FOR CONNECTION CABLE
- 17 = USE TYPE NETMAN 102 or MULTICOM 352 or MULTICOM 302(*)
- 18 = USE TYPE NETMAN 102 or MULTICOM 352 or MULTICOM 302(*)

(*): THE ETHERNET OR MULTICOM PORT ARE CONNECTS TO THE RS232 PORT 15-16, THE CARDS USE PREVENTS THE UTILIZE OF THE RS232 PORT

MPT 30 ÷ 40 / HC / PWA

RPS	EDIT.	M.Mutti	APPR.	S.Pagnoncelli	DATA:	02/12/21	DRAW. No		REV.
	VARIATION:				OMNMPTK30RUENIB				00
	REPLACE:				OMNMPTK30RUENIA_02				PAG. 07 CONT. 08
NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice					TITLE: MAN MPT 30÷40 DRW EN MPT 30÷40 / HC / PWA – CONNECTION DETAILS				



WARNING

- THE INPUT OUTPUT AND PROTECTIVE EARTHING CONDUCTORS MUST BE SIZED FOLLOWING RATED VOLTAGE AND CURRENT, SHOWN IN THE TABLES BELOW, AND ACCORDING TO DOMESTIC REGULATIONS AND CURRENT STANDARDS (see Note *)
- THE PROTECTIVE EARTHING CONDUCTOR (PE) MUST BE CONNECTED FIRST BEFORE TO PROCEDE CONNECTING INPUT / OUTPUT AND BATTERY CABLES
- AFTER A POWER FAILURE AND A COMPLETE DISCHARGE OF THE BATTERY, THE UPS SWITCHES OFF. WHEN THE MAINS POWER RETURNS, THE UPS RESTARTS AUTOMATICALLY, POWERS THE LOAD AND RECHARGES THE BATTERY.

MPT-MPT HC-MPT PWA	size(kVA)	30	40
Rated conditional short circuit current (Icc)		10 kA	10 kA
With upstream protection type		gG/gL fuse or equivalent circuit Breaker	

SINGLE INPUT LINE

INPUT LINE 3Ph + N + PE 400 / 230 Vac (415 / 240 Vac)			
MPT-MPT HC-MPT PWA	size(kVA)	30	40
Max current (A)		65 (65)	87 (87)
Size of upstream protection device (A) gG/gL fuse or equivalent circuit Breaker		80	100
Terminal L1-L2-L3-Neutral INPUT type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *
Earthing terminal type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 16 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *
OUTPUT LINE 3Ph + N 400 / 230 Vac (415 / 240 Vac)			
MPT-MPT HC-MPT PWA	size(kVA)	30	40
Rated current (A)		43 (41)	59 (56)
Terminal L1-L2-L3-Neutral OUTPUT type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *

BATTERY DC INPUT

(The PE conductor from battery cabinet-battery room must be connected at the UPS earthing terminal only)

Refer to 192 Pb cells (384 Vdc rated voltage)		
UPS size(kVA)	30	40
Rated current (A)	80 **	109 **
Size of protection device (A)	Overcurrent protection of both polarities suitable for DC application *** see note below	
Terminal (+) / (-) type	Terminal blocks	
N.cables per phase x size (mm ²)	1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²) (EPR type) suggested for max 25m)	1 x 50 *	1 x70 *

NOTE:

**average current during discharge

Sizing cables for 1 hour discharging max (horizontal perforate trays max 4 cables)

***For batteries arrangement different from RPS batteries cabinet

Also disconnecting device (both polarities) must be provided

Compliance with safety standards will be care of batteries supplier.

POWER CONNECTION INFORMATIONS

DUAL INPUT SEPARATE LINE

(Remove the cables connecting input mains-bypass terminals)

INPUT MAINS LINE 3Ph + PE 400 Vac (415 Vac)			
MPT-MPT HC-MPT PWA	size(kVA)	30	40
Max current (A)		65 (65)	87 (87)
Size of upstream protection device (A) gG/gL fuse or equivalent circuit Breaker		80	100
Terminal L1-L2-L3-Neutral INPUT type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x50 *
Earthing terminal type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 16 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *
INPUT BYPASS LINE 3Ph + N 400 / 230 Vac (415 / 240 Vac)			
MPT-MPT HC-MPT PWA	size(kVA)	30	40
Rated current (A)		43 (41)	59 (56)
Size of upstream protection device (A) gG/gL fuse or equivalent circuit Breaker		50	80
Terminal L1B-L2B-L3B-Neutral BYPASS type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *
OUTPUT LINE 3Ph + N 400 / 230 Vac (415 / 240 Vac)			
MPT-MPT HC-MPT PWA	size(kVA)	30	40
Rated current (A)		43 (41)	59 (56)
Terminal L1-L2-L3-Neutral OUTPUT type	Terminal blocks		
N.cables per phase x size (mm ²)		1 x 16 *	1 x 25 *
Max sez. cables connectable (mm ²)		1 x 50 *	1 x 50 *

NOTE:

(*) the indicated sizing cables are only as example following IEC 60364-5-52 in conditions of :

- TNS system
- 30°C ambient
- Cu single core cables type EPR (90°C) and shall have suitable for UPS voltage rating
- Horizontal perforated trays (vertical distance between trays ≥ 300mm distance to wall ≥ 20mm
- Max 100m with drop of voltage < 3%
- Max THDI (load current) = 15%

MPT 30 ÷ 40 / HC / PWA

RPS	EDIT.	M.Mutti	APPR.	S.Pagnoncelli	DATA:	02/12/21	DRAW. No	REV.
	VARIATION:					OMNMPTK30RUENIB		00
	REPLACE:	OMNMPTK30RUENIA_02				PAG.	08	CONT. --
NOTE: In order to make improvements, the manufacturer reserves the right to modify the product described at any moment and without notice					TITLE: MAN MPT 30÷40 DRW EN MPT 30÷40/HC/PWA – POWER CONNECTION INFORMATIONS			