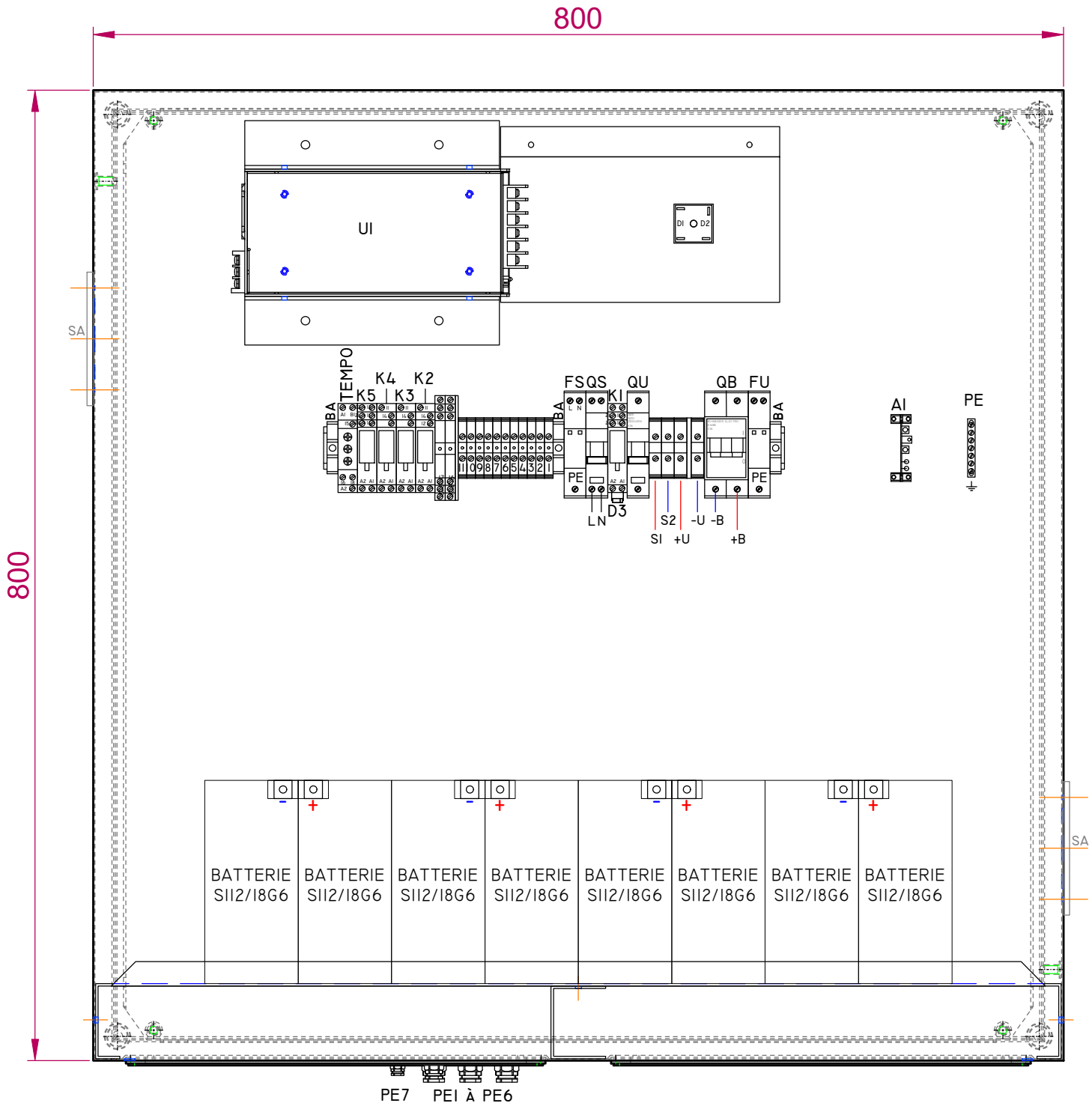
COFFRET « ALIMENTATION »

48Vdc 600W 36Ah

2 Lampes à éclats 300W de jour
+ 2 Balises rouges de nuit 6W

113957 - W

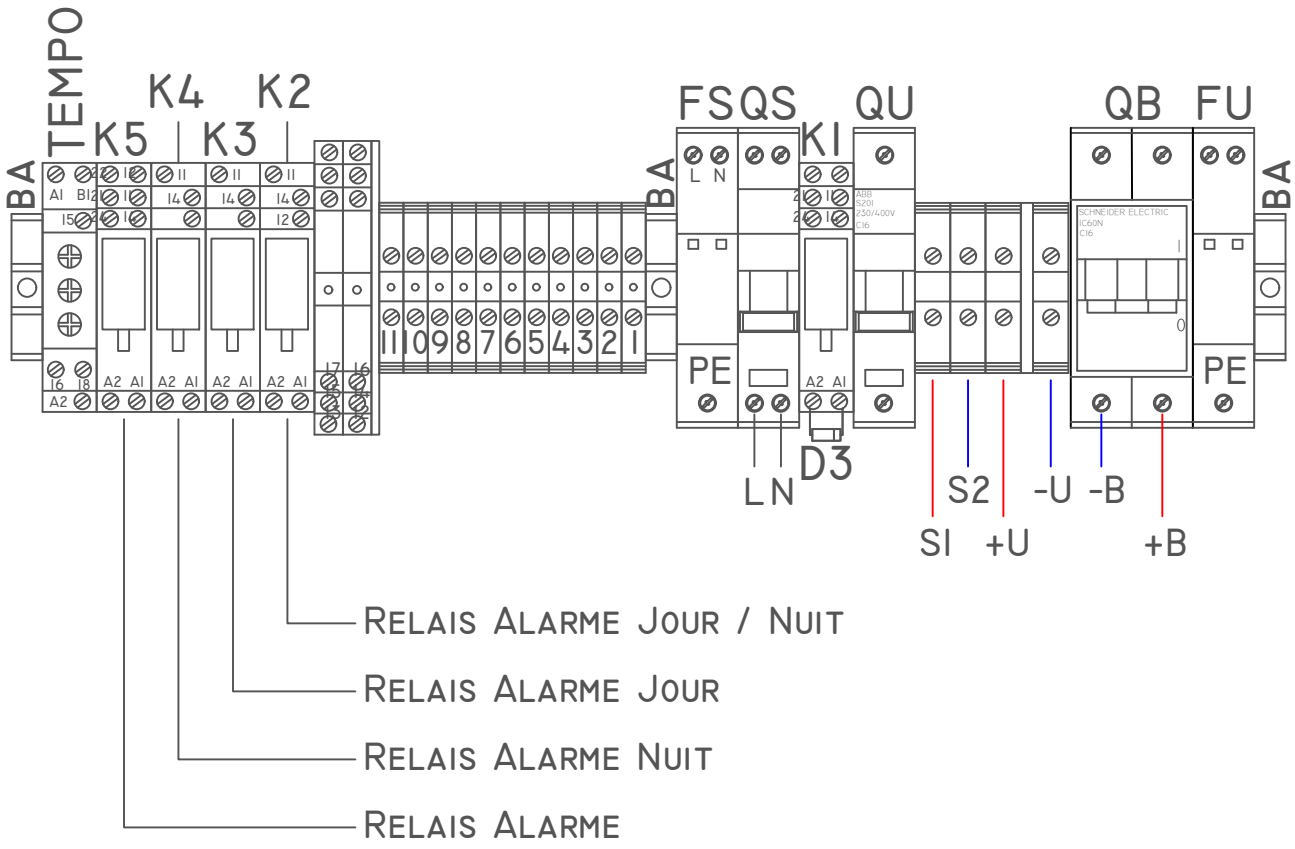
OBSTA
29 Bd Edgar Quinet
75014 Paris
France
http://www.obsta.com



COFFRET "ALIMENTATION" 48V 600W	HAUTEUR: 800MM LARGEUR: 800MM PROFONDEUR: 300MM POIDS: 93KG

	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE:* 1:4 EN A4
MISE A JOUR: *UPDATE:*	20.07.23					TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
DESSINE PAR: *DRAW BY:*	S.SANTOS					FOLIO 1/1	
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						

COFFRET ALIMENTATION 48Vdc 600Wc — ***113957- W PE1***



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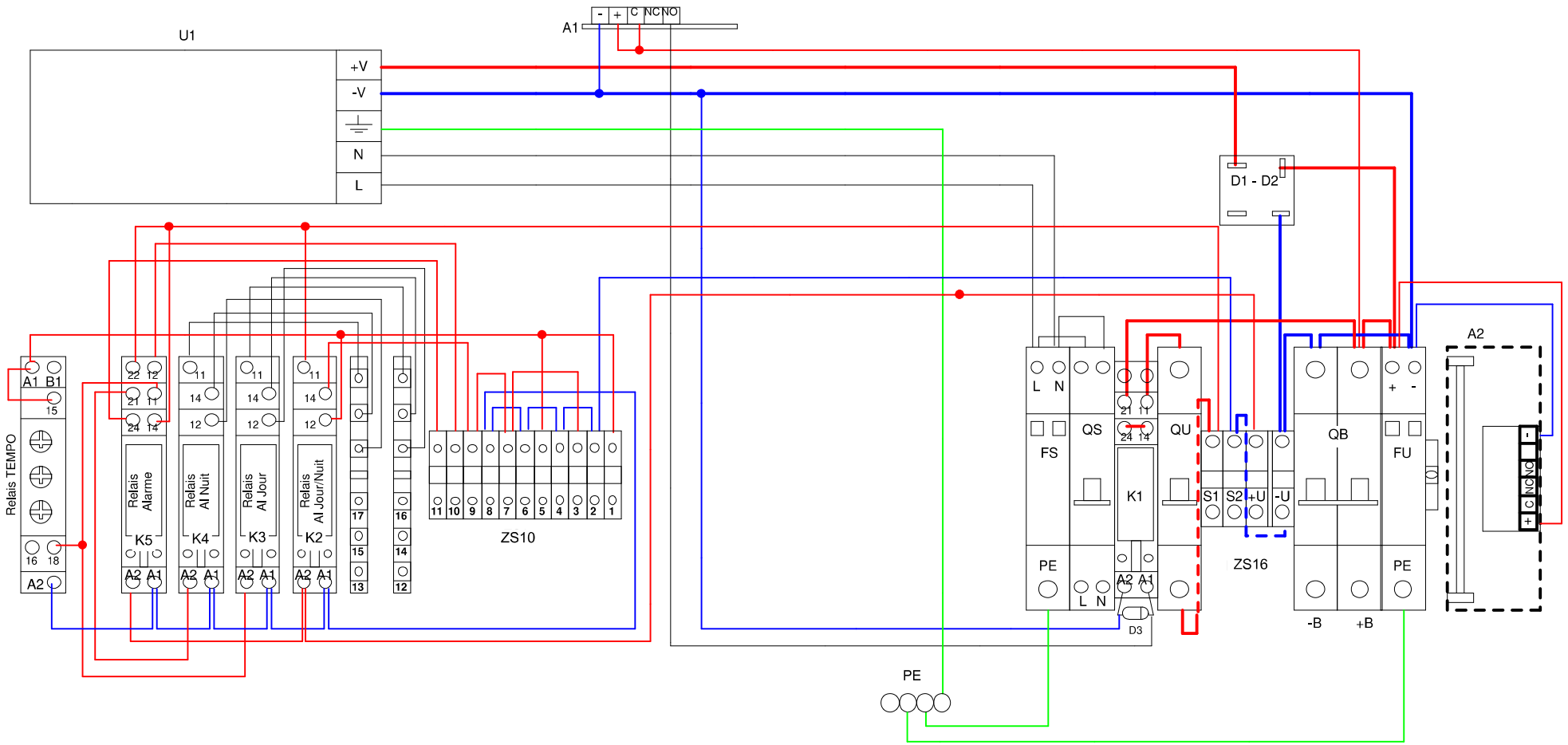
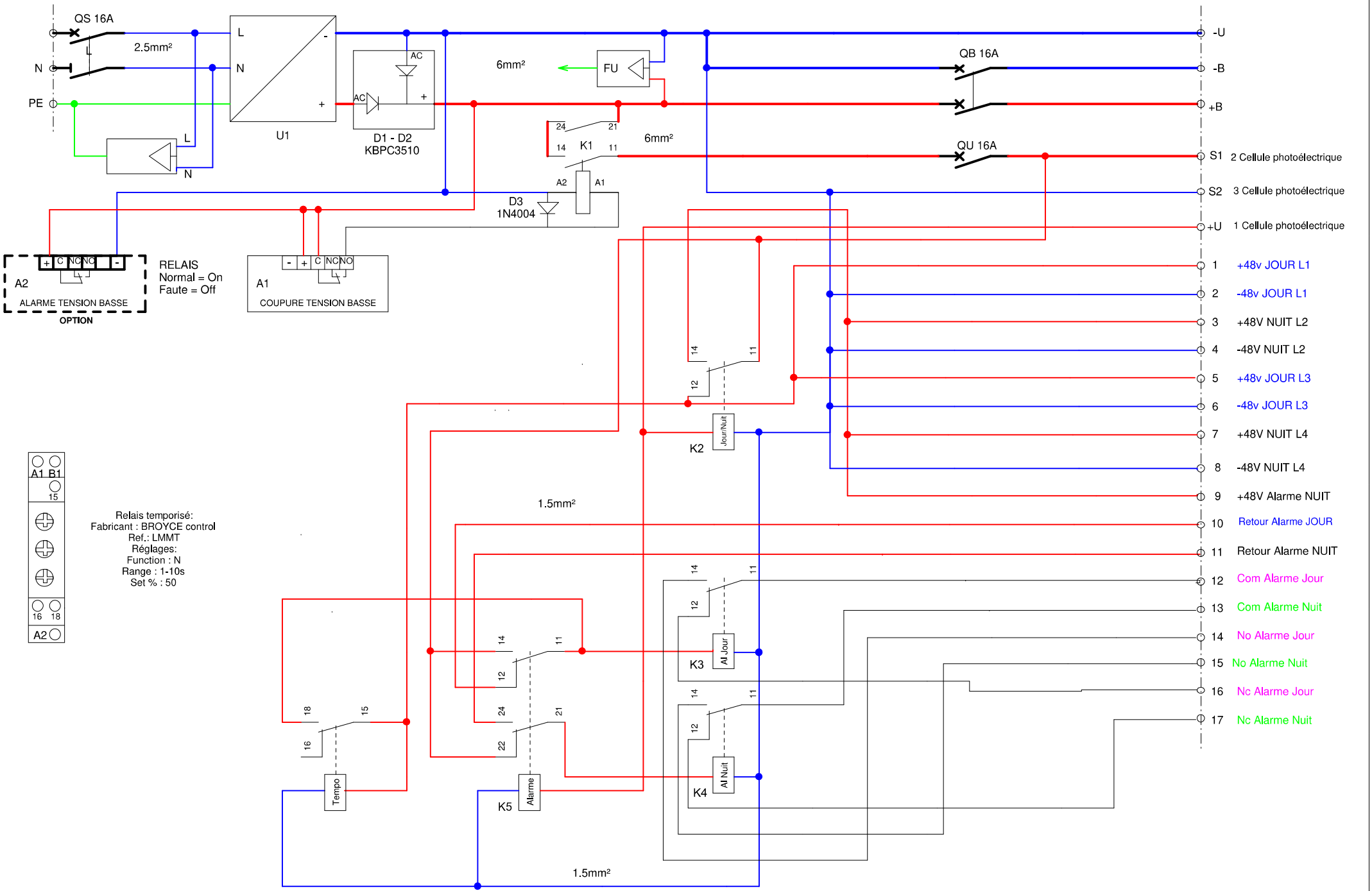
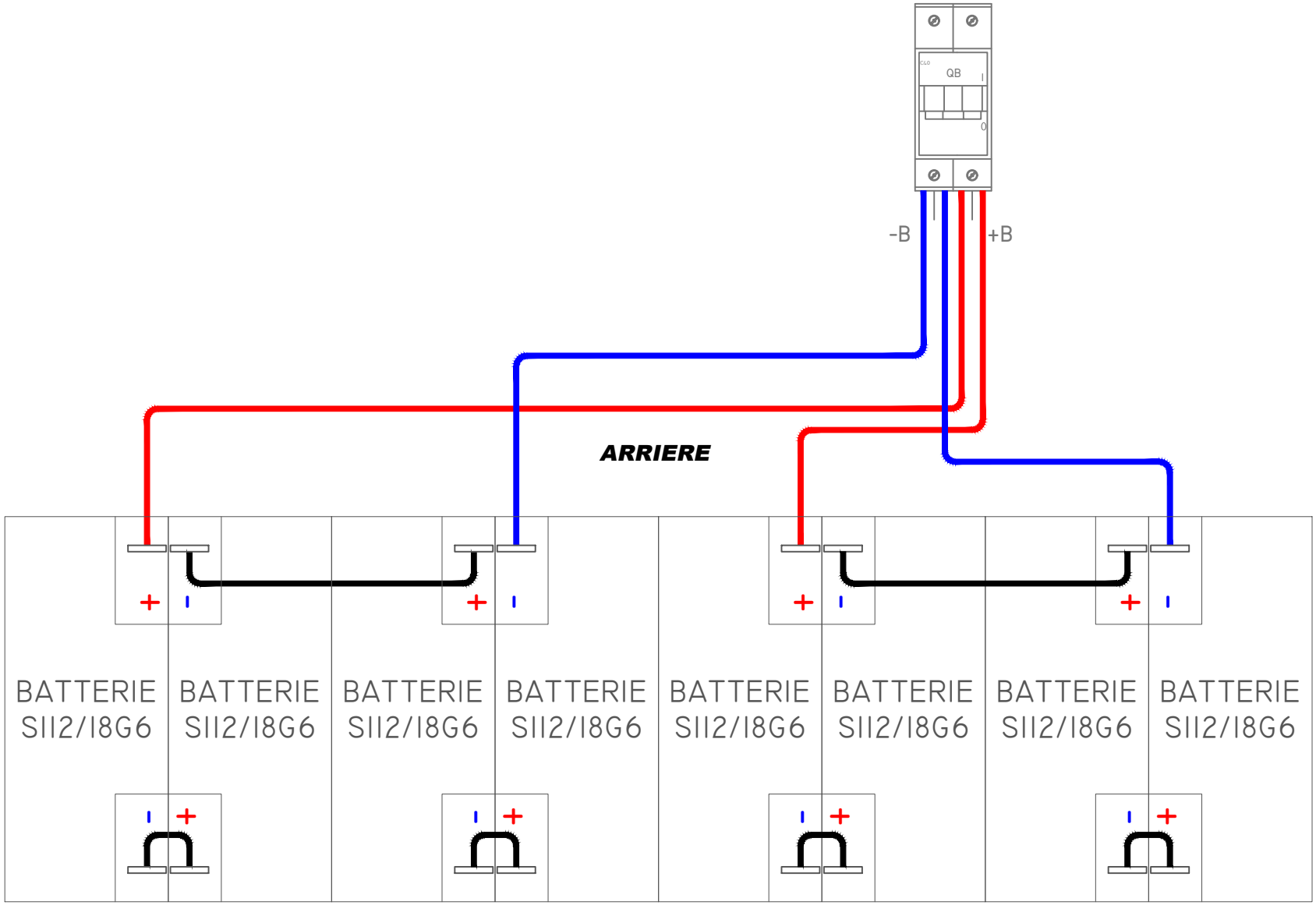
MISE A JOUR: ***UPDATE:***	20.07.23					**TOLERANCE:** ISO 2768-M ***TOLERANCE:***	**FORMAT:** A3-H ***SIZE:***
DESSINE PAR: ***DRAW BY:***	S.SANTOS					**FOLIO** 1/1	
VERIFIE PAR: ***APPROVED BY:***	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 600Wc						***113957- W PE2***	



	13/06/2023	ALIMENTATION 48V 600W
		Code 113957-W



	13/06/2023	ALIMENTATION 48V 600W
		Code 113957-W



	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE*: 1:4 EN A4
MISE A JOUR: ***UPDATE:***	20.07.23					**TOLERANCE:** ISO 2768-M ***TOLERANCE:***	**FORMAT:** A3-H ***SIZE:***
DESSINE PAR: ***DRAW BY:***	S.SANTOS					**FOLIO** 1/1	
VERIFIE PAR: ***APPROVED BY:***	T.LOISELLE						

COFFRET ALIMENTATION 48Vdc 600Wc

113957- W P3

	1	**Flasque d'extrémité**	D-UT 2,5 - 3L	*Protection Terminal*	PHOENIX CONTACT	
	2	**Bloc de jonction 3niveaux**	UT 2,5 - 3L	*Terminal 3 step*	PHOENIX CONTACT	
	1	**Flasque d'extrémité ES4**	1SNK 505 910 R0000	*Protection Terminal*	ENTRELEC	
PE	1	**Barrette de masse**	5 plots	*Earth Bar*	ABB	
QU	1	**Disjoncteur 16A 1P**	A9F77116	*Circuit Breaker 16A*	SCHNEIDER	
FU	1	**Parafoudre**	DS230 - 48Vdc	*Lighting Protection*	CITEL	
FS	1	**Parafoudre**	DS240-230/G	*Lighting Protection*	CITEL	
BA	8	**Batterie 12V 18Ah**	S112 / 18G6	*Battery 12V 18Ah*	POWERFIT	
	1	**Rail DIN**	35x15 Long. 380 mm	*DIN Rail*	ERICO	
D3	1	**Diode**	1N4004	*Diode*	THOMSON	
D1 - D2	1	**Pont de Diode**	KBPC 3510 5105	*Diode Bridge*	UR	
TEMPO	1	**Relais temporisé**	LMMT	*Temporised relay*	BROYCE control	
K5	1	**Relais 48V + Socle**	CRP048DC2	*Relay48V + Holder*	ABB	
K4	1	**Relais 48V + Socle**	RXG15ED	*Relay48V + Holder*	SCHNEIDER	
K3	1	**Relais 48V + Socle**	RXG15ED	*Relay48V + Holder*	SCHNEIDER	
K2	1	**Relais 48V + Socle**	RXG15ED	*Relay48V + Holder*	SCHNEIDER	
K1	1	**Relais 48V + Socle**	CRP048DC2	*Relay48V + Holder*	ABB	
U1	1	**Alimentation 48Vdc 600W**	HRP-600	*48Vdc 600W Power*	MEAN WELL	
A1	1	**Carte RVU**	RV 1521-3	*RVU Card*	SOLARCOM	
A1	2	**Guide Carte**	VMCG-90-MPBX-K	*Card Guide*	RS	
QB	1	**Disjoncteur 2P C16**	C32H-DC C16	*Circuit Breaker C16*	SCHNEIDER	
QS	1	**Disjoncteur Ph+N C16**	S201 C16	*Circuit Breaker Ph+ N C16*	SCHNEIDER	
S1 S2 +U -U	4	**Borne ZS16**	1SNK 510 010 R0000	*Terminal ZS16*	ENTRELEC	
1 à 11	11	**Borne ZS10**	1SNK 508 010 R0000	*Terminal ZS10*	ENTRELEC	
BA	3	**Butée d'arrêt BAM4**	1SNK 900 001 R0000	*Terminal Block*	ENTRELEC	
PE6	1	**Presse étoupe PG9**	ISM71501	*Cable gland PG11*	SCHNEIDER	
PE6	1	**Presse étoupe PG11**	ISM71502	*Cable gland PG11*	SCHNEIDER	
PE1 à PE5	5	**Presse étoupe PG13**	ISM71503	*Cable gland PG13*	SCHNEIDER	
SA	2	**Grille de Ventilation**	87 000	*Ventilation grid*	BRICO	
	4	**Patte de Fixation Coffret**	AW41	*Fixing Chest*	SCHNEIDER	
ENV	1	**Coffret MAS0808030R5**	800 X 800 X 300	*Steel box*	SCHNEIDER	

Repère	**Nb**	**Désignation**	**Référence**	***Désignation***	**Fournisseur**	**PP**

MISE A JOUR: *UPDATE:*	**Ed1: 12/07/23**	**Ed2:**	**Ed3:**	**Ed4:**	**Ed5:**	**E.S.**	**FORMAT: A4** *SIZE:*		
ETABLI PAR: *DRAFT BY:*	S.SANTOS					**FOLIO**			
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE					**1/1**			

COFFRET ALIMENTATION 48Vdc 600W

113957- W - N

600W Single Output with PFC Function

HRP-600 series

■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- Built-in remote sense function
- All using 105℃ long life electrolytic capacitors
- 5 years warranty

User's Manual

■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

SPECIFICATION

MODEL		HRP-600-3.3	HRP-600-5	HRP-600-7.5	HRP-600-12	HRP-600-15	HRP-600-24	HRP-600-36	HRP-600-48
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	120A	120A	80A	53A	43A	27A	17.5A	13A
	CURRENT RANGE	0 ~ 120A	0 ~ 120A	0 ~ 80A	0 ~ 53A	0 ~ 43A	0 ~ 27A	0 ~ 17.5A	0 ~ 13A
	RATED POWER	396W	600W	600W	636W	645W	648W	630W	624W
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	2.8 ~ 3.8V	4.3 ~ 5.8V	6.8 ~ 9V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	28.8 ~ 39.6V	40.8 ~ 55.2V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1800ms, 50ms/230VAC 3600ms, 50ms/115VAC at full load							
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load							
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.99/115VAC at full load							
	EFFICIENCY (Typ.)	78.5%	82%	86%	88%	88%	88%	89%	89%
	AC CURRENT (Typ.)	7.6A/115VAC 3.6A/230VAC							
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC							
	LEAKAGE CURRENT	<1.2mA / 240VAC							
PROTECTION	OVERLOAD	105 ~ 135% rated output power							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6 ~ 67.2V
		Protection type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	DC OK SIGNAL	PSU turn on : 3.3 ~ 5.6V ; PSU turn off : 0 ~ 1V							
	FAN CONTROL (Typ.)	Load 35±15% or RTH2≧50℃ Fan on							
ENVIRONMENT	WORKING TEMP.	-40 ~ +70℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, heavy industry level, EAC TP TC 020							
OTHERS	MTBF	1333.6K hrs min. Telcordia SR-332 (Bellcore) ; 140.7K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	218*105*63.5mm (L*W*H)							
	PACKING	1.5Kg;8pcs/13Kg/1.34CUFT							

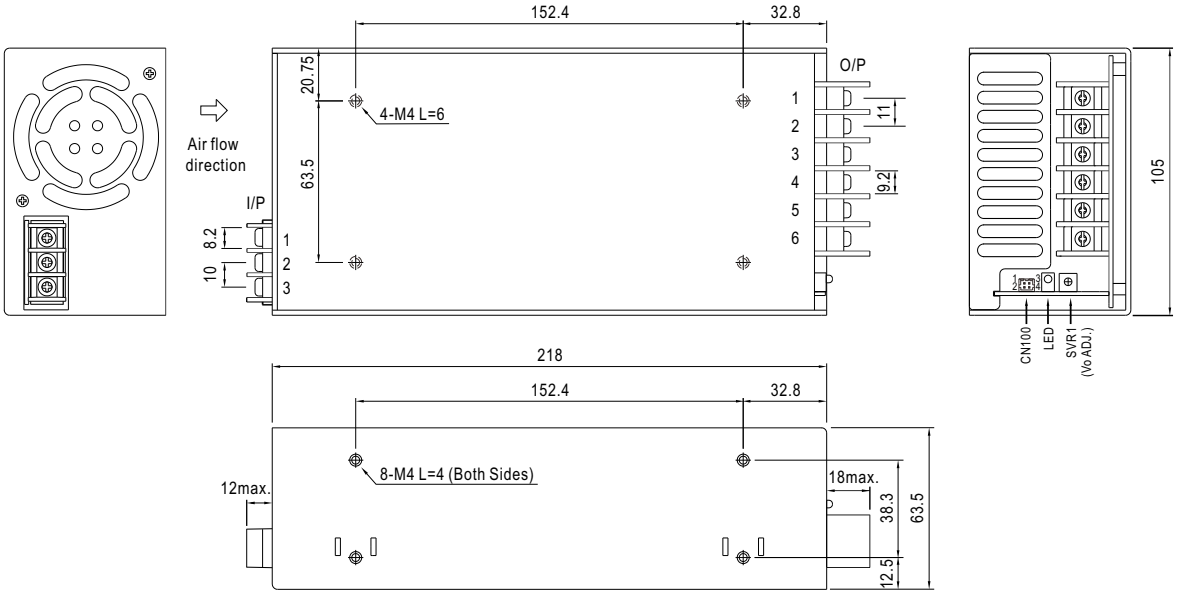
NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
5. Derating may be needed under low input voltages. Please check the derating curve for more details.
6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).

※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

■ Mechanical Specification

Case No. 977A Unit:mm



AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG ⏚

DC Output Terminal Pin No. Assignment

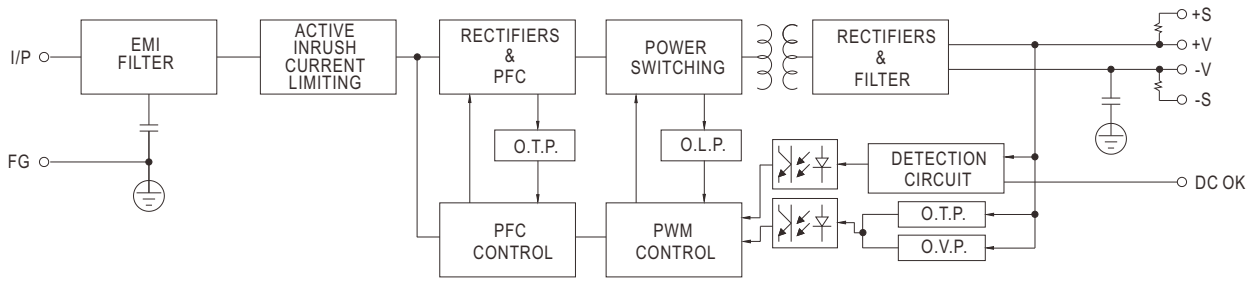
Pin No.	Assignment
1~3	-V
4~6	+V

Connector Pin No. Assignment(CN100) : HRS DF11-4DP-2DS or equivalent

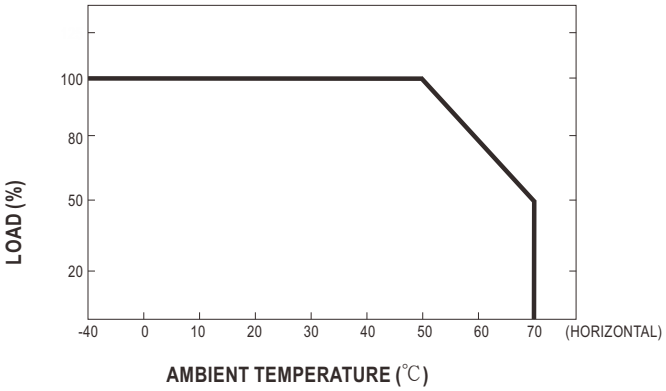
Pin No.	Assignment	Mating Housing	Terminal
1	DC-OK	HRS DF11-4DS or equivalent	HRS DF11-**SC or equivalent
2	GND		
3	+S		
4	-S		

■ Block Diagram

PWM fosc : 70KHz

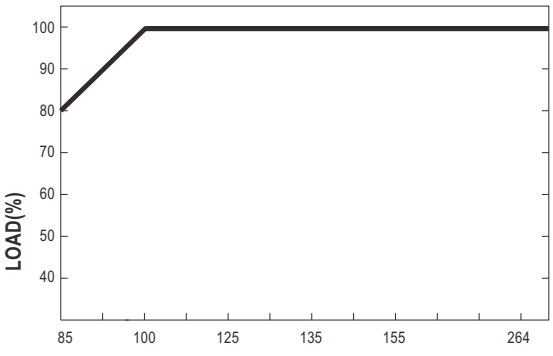


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Output Derating VS Input Voltage



INPUT VOLTAGE (V) 60Hz

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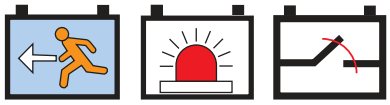
INDUSTRIAL POWER
A Division of Exide Technologies

Industrial Batteries / Network Power

Powerfit S100 / S100L

»The **compact energy package**
for **more security**«



Powerfit®

Powerfit S100 / S100L

The compact all-rounder

GNB's Powerfit S100 are general purpose batteries designed to deliver high performance in case of power interruptions. They are the ideal solution for applications such as security & alarm systems, emergency lighting, signaling, and any other UPS application where compact and reliable back-up power is key.

Specifications:

- Rechargeable VRLA batteries in which the electrolyte is fixed in a glass mat (with very fine glass fibres)
- Perfect combination of energy storage performance and reliability
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 1.2 – 38 Ah
- 5 years design life at 20 °C ambient temperature (80% remaining capacity) for S100 (part number NAS1...) models (EUROBAT 2015: 3 – 5 years standard commercial)
- 10 years design life at 20 °C ambient temperature (80% remaining capacity) for S100L (part number NASL...) models (EUROBAT 2015: 10/12 years long life)
- IEC 896-2 cycle test: 400 cycles at 60% DOD
- Container in ABS Material - no V0 available
- Designed in accordance with IEC 60896-21/22
- Grid plate construction consisting of a lead calcium alloy
- Low gas emission due to high gas recombination of 99%
- Low self-discharge rate (about 3% / month at 20 °C)
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea and air transportation (IATA, DGR clause A67)
- Completely recyclable

Technical characteristics and data

Type	Part number	Nom-voltage V	Nom. capacity C_{20} 1.80 Vpc 25 °C Ah	C_{10} 1.75 Vpc 25 °C Ah	C_1 1.6 Vpc 25 °C Ah	Length* (l) mm	Width* (b/w) mm	Height* (h) mm	Weight ca. kg	Internal-resistance acc. to IEC 60896-21 mΩ	Max. discharge current f. 5 sec. A	Terminal
S106/4.5 S	NAS10604D5VW0SA	6	4.50	4.27	2.73	70.0	47.0	106	0.81	25.0	67.5	S-4.8
S106/12 SR	NAS1060012VW0RA	6	12.0	11.5	7.54	151	51.0	100	1.80	15.0	180	SR-6.3
S112/1.2 S	NAS11201D2VW0SA	12	1.20	1.14	0.73	97.0	43.0	58.0	0.57	90.0	18.0	S-4.8
S112/1.9 S	NAS11201D9VW0SA	12	1.90	1.80	1.15	178	35.0	65.0	0.87	80.0	28.5	S-4.8
S112/4.5 S	NAS11204D5VW0SA	12	4.50	4.27	2.73	90.0	70.0	107	1.48	40.0	67.5	S-4.8
S112/7.2 S	NAS11207D2VW0SA	12	7.20	6.82	4.44	151	65.0	99.0	2.35	22.0	108	S-4.8
S112/7.2 SR	NAS11207D2VW0RA	12	7.20	6.82	4.44	151	65.0	99.0	2.35	22.0	108	SR-6.3
S112/9 SR	NAS1120009VW0RA	12	9.00	8.06	5.31	151	65.0	99.0	2.45	18.0	127.5	SR-6.3
S112/12 S	NAS1120012VW0SA	12	12.0	11.5	7.54	151	98.0	101	3.50	14.0	180	S-4.8
S112/12 SR	NAS1120012VW0RA	12	12.0	11.5	7.54	151	98.0	101	3.50	14.0	180	SR-6.3
S112/18 G6	NAS1120018VW0BA	12	18.0	17.2	11.3	181.5	77.0	167.5	5.40	16.0	270	G-M6
S112/26 G6	NAS1120026VW0BA	12	26.0	24.8	16.3	166	175	125	8.00	14.0	390	G-M6
S112/38 F6	NAS1120038VW0FA	12	38.0	38.0	23.2	197	165	170	12.20	10.0	456	F-M6
S112/18 F5	NAS1120018HW0FA	12	18.0	17.0	11.1	181.5	76.5	167.5	5.4	16.0	270	F-M5
S112/26 F5	NAS1120026HW0FA	12	26.0	24.8	16.3	166	175	125	7.8	14.0	390	F-M5
S112/7L SR	NASL120007HW0RA	12	7.42	7.1	4.3	151	65	99	2.45	23.0	105	SR-6.3
S112/9L SR	NASL120009HW0RA	12	8.6	8.5	6.0	151	65	99	2.66	17.0	135	SR-6.3
S112/12L SR	NASL120012HW0RA	12	12.0	11.7	7.38	151	98	101	3.5	27.0	180	SR-6.3
S112/18L F5	NASL120018HW0FA	12	18.0	17.7	11.1	181.5	76.5	167.5	5.7	24.0	270	F-M5
S112/25L F5	NASL120025HW0FA	12	25.4	24.2	14.8	166	175	125	7.8	14.0	360	F-M5

* ±2 mm


Nominal capacity 1.2 – 38 Ah C_{20}


Block battery


Grid plate


Recyclable

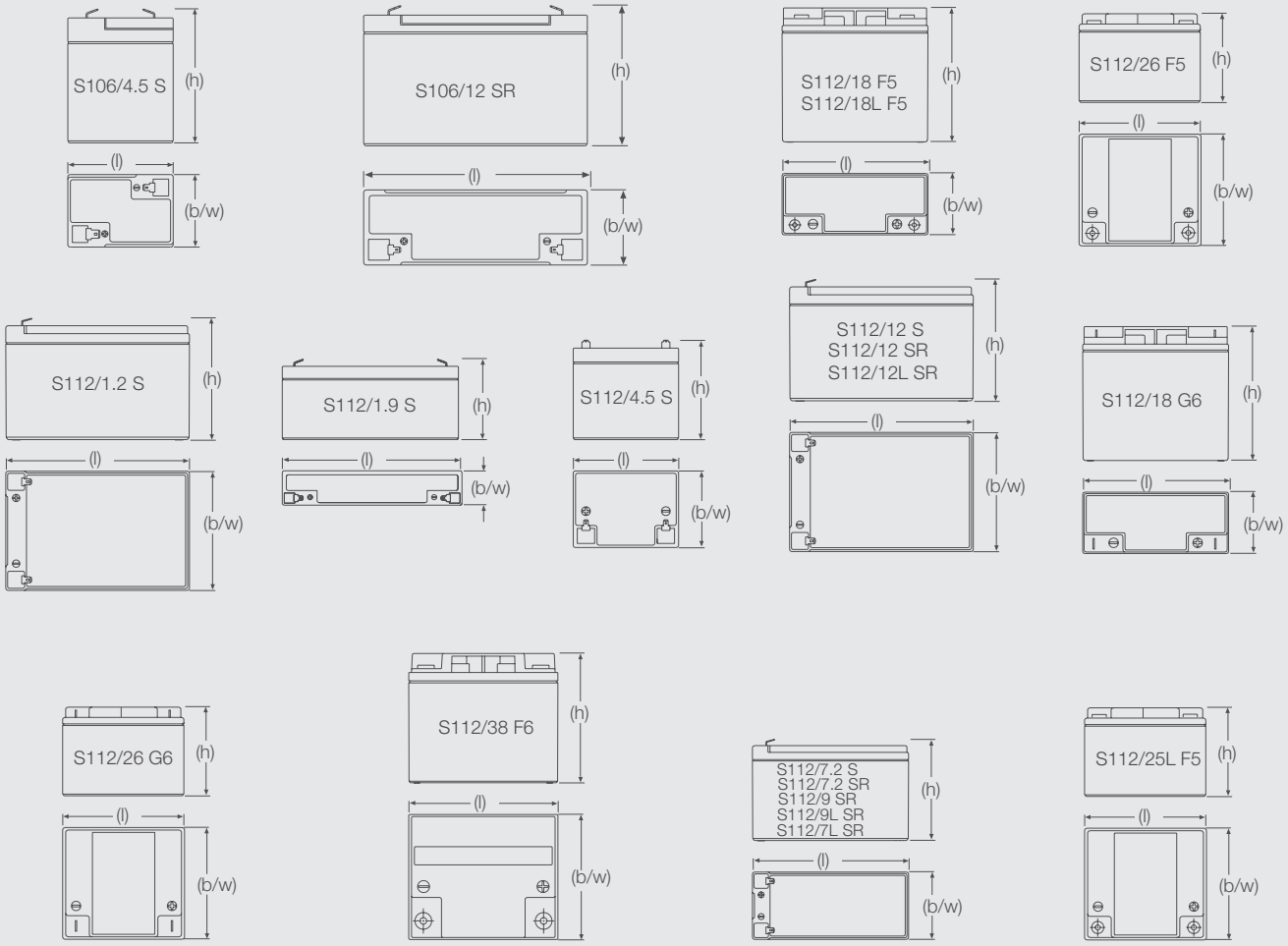
Valve regulated lead-acid batteries


Maintenance-free (no topping up)

Powerfit S100 / S100L

The compact energy source with high performance

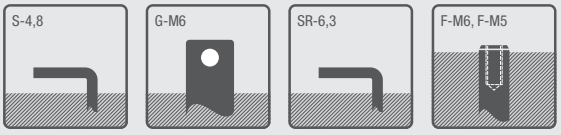
Dimensions



Note: Not to scale!

Container and terminal

> Container: ABS
no V0 available on S100 and S100L



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Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and automotive applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. An integrated approach to manufacturing, distributing and recycling of lead-acid batteries has been developed to ensure a safe and responsible life cycle for all of its products.

NXWS1TEPDF1218 Subjects to alterations

GNB® INDUSTRIAL POWER devises enduring energy concepts that convince with efficiency, flexibility and profitability.

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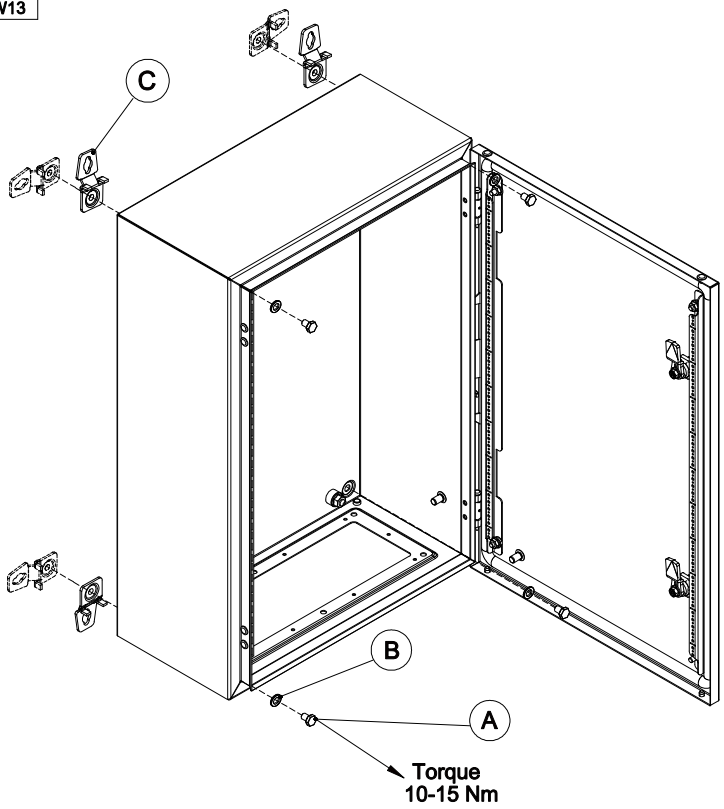
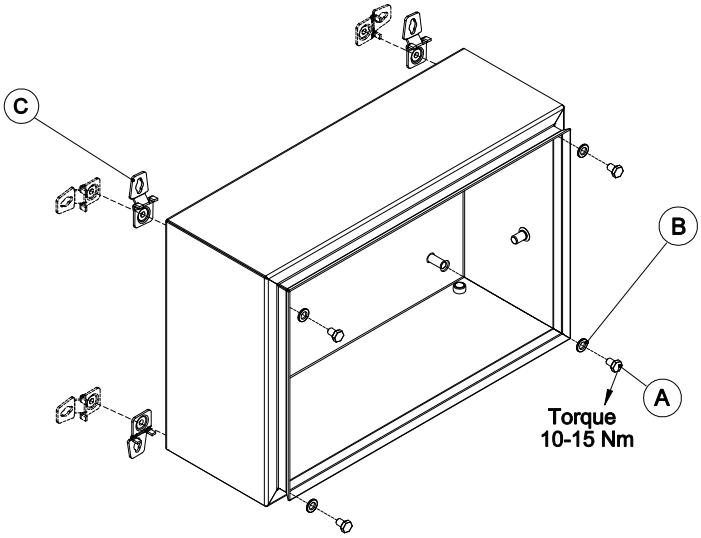
nVent
HOFFMAN

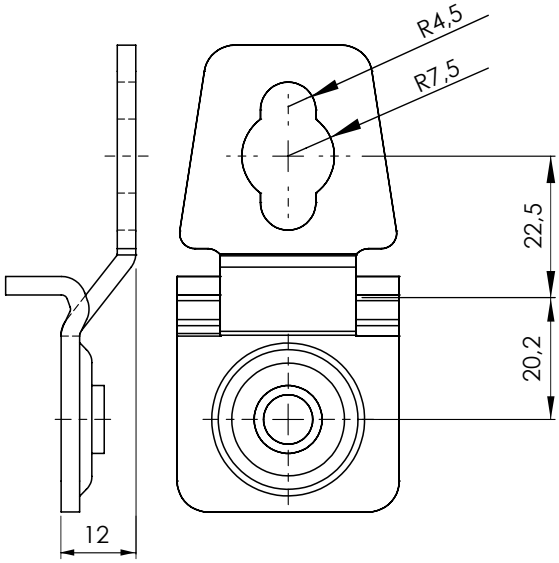
AW/AWS

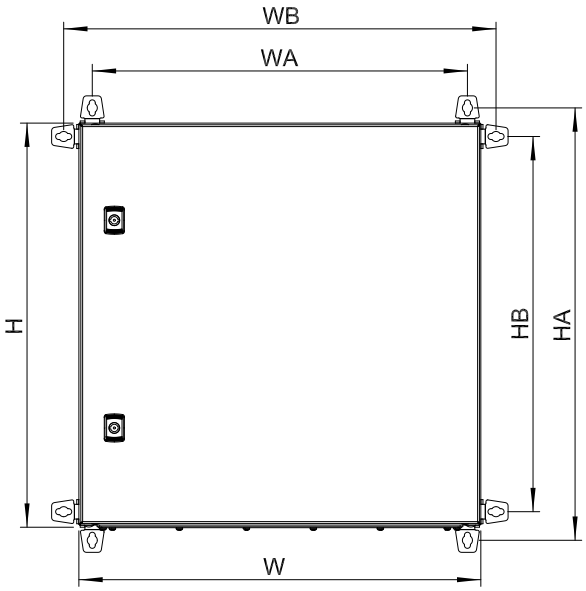
SW13

Ref.	Pic.	Qty.
A	M8x12	4
B	M8 Nylon	4
C		4



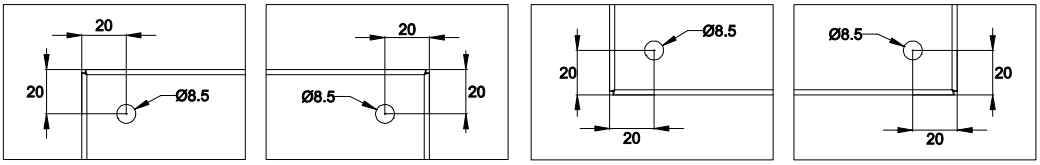






HA	WA
H+45,5	W-40

HB	WB
H-40	W+45,5



Machining is required for stainless steel enclosures only.