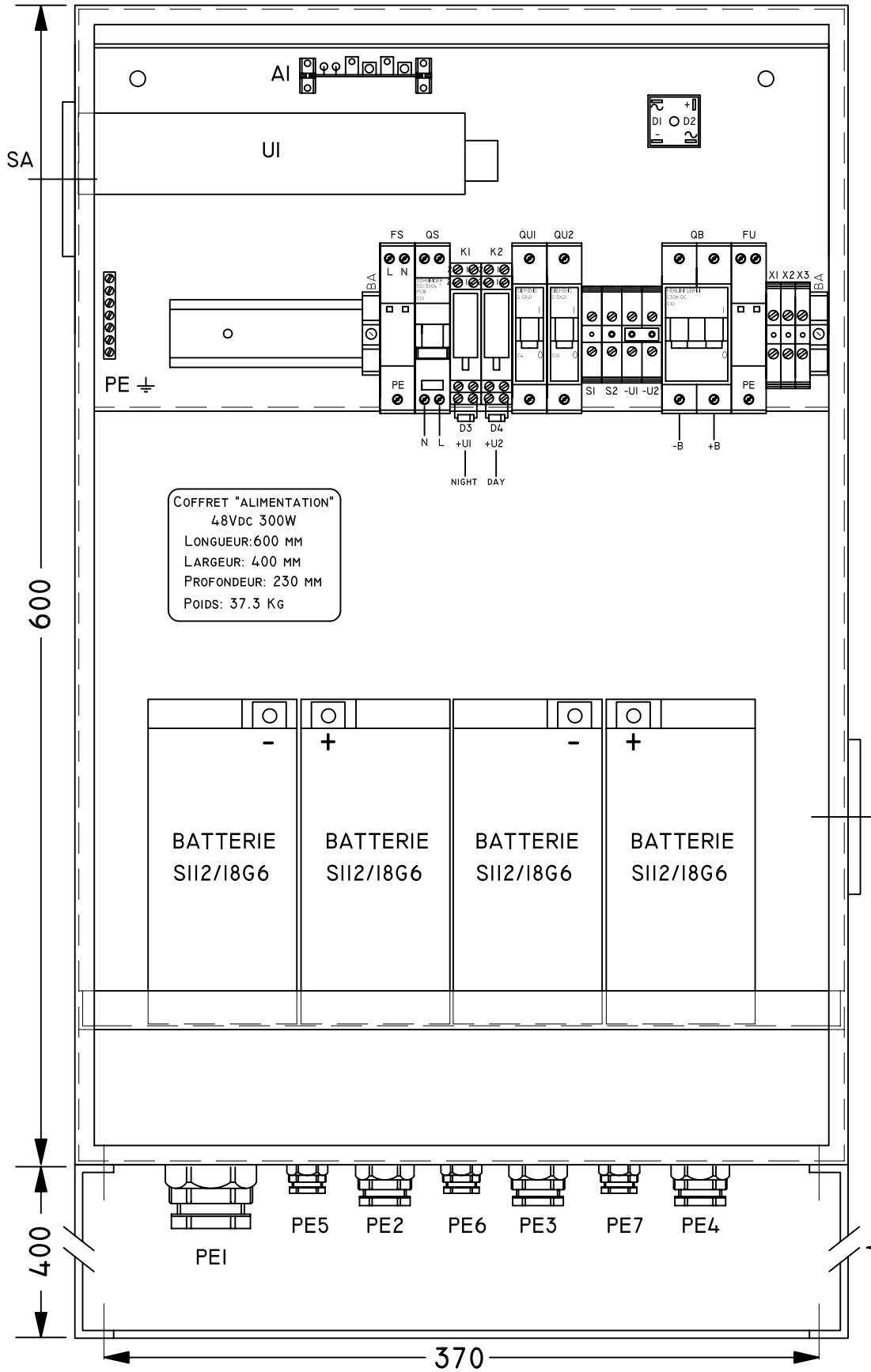
COFFRET "ALIMENTATION" 48Vdc 300W (bornier d'alarme + Relais commande lampes)

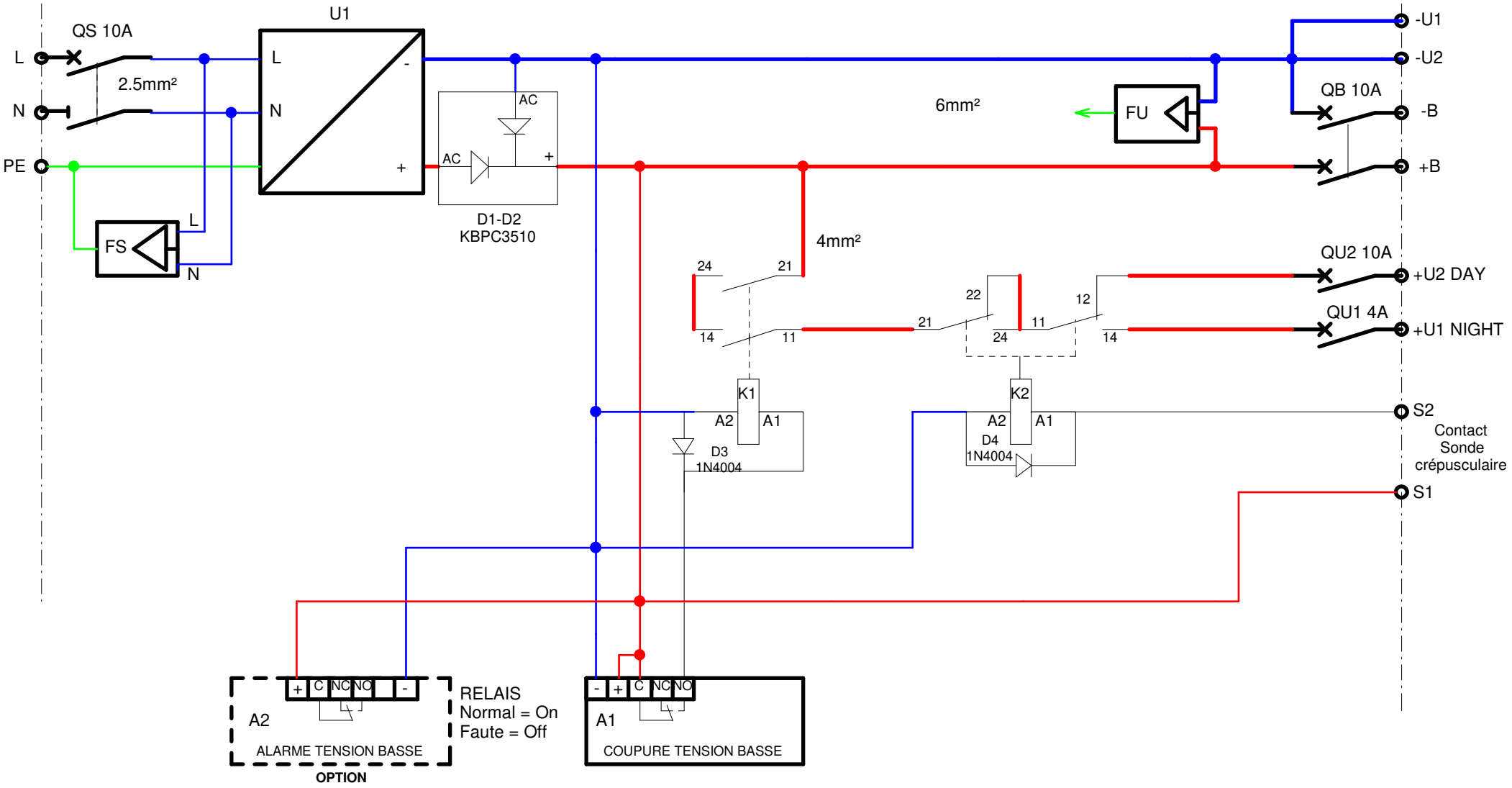
OBSTA
2 rue Troyon
92316 Sčvres
www.obsta.com



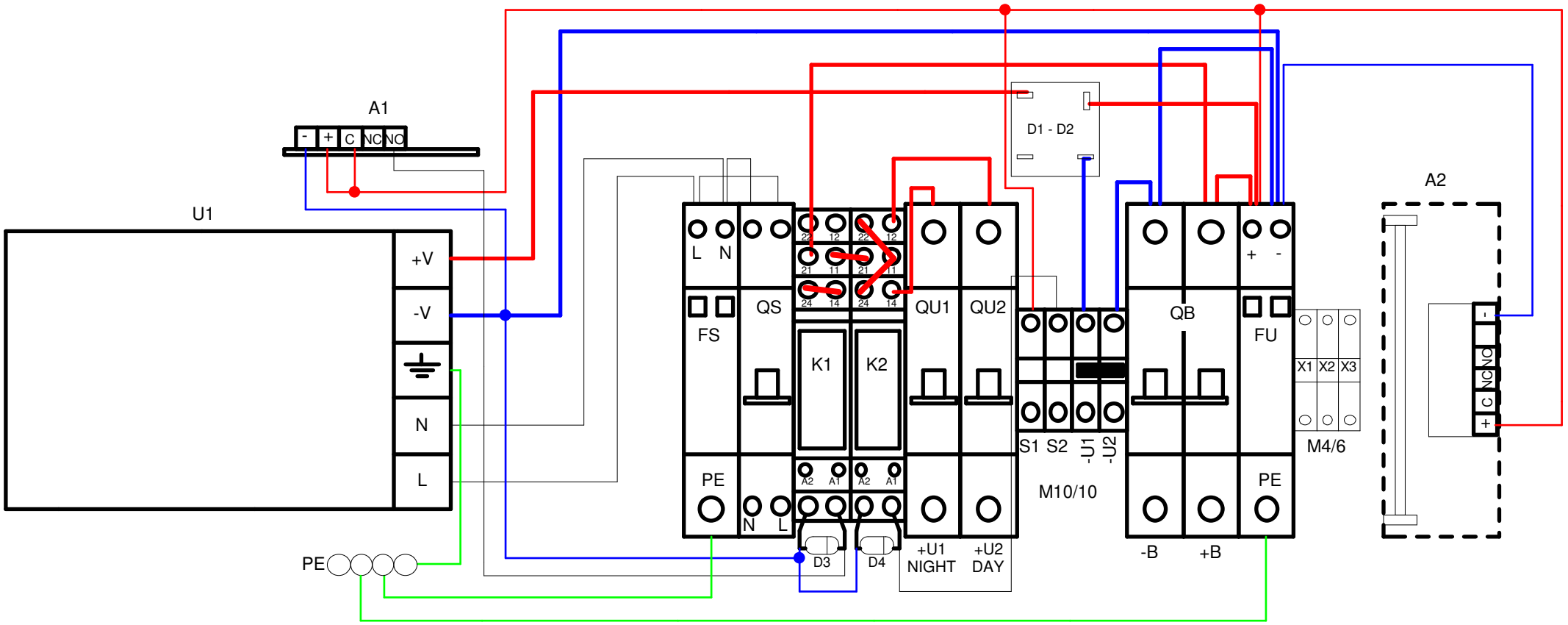
	ED.1 :	ED.2 :	ED.3 :	ED.4 :	ED.5 :	E.S :	ECHELLE / SCALE :
MISE À JOUR : *UPDATE :*	14/11/16	14/01/19				TOLÉRANCE : *TOLERANCE :* ISO 2768-M	FORMAT : *SIZE :* A4-V
DESSINÉ PAR : *DRAWING BY :*	T.BARDOT	T.BARDOT				FOLIO 1/1	
VÉRIFIÉ PAR : *APPROVED BY :*	J.CARELLA	J.CARELLA					

COFFRET "ALIMENTATION" 48VDC 300W
+ BORNIER ALARMES + RELAIS COMMANDES LAMPES

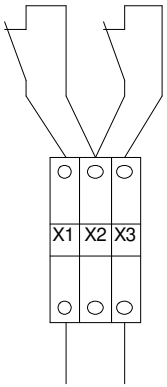
AS 0386.1 PE1



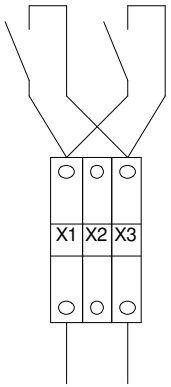
17/08/2020	ALIMENTATION 48V 300W-S-V6
	Code 113956



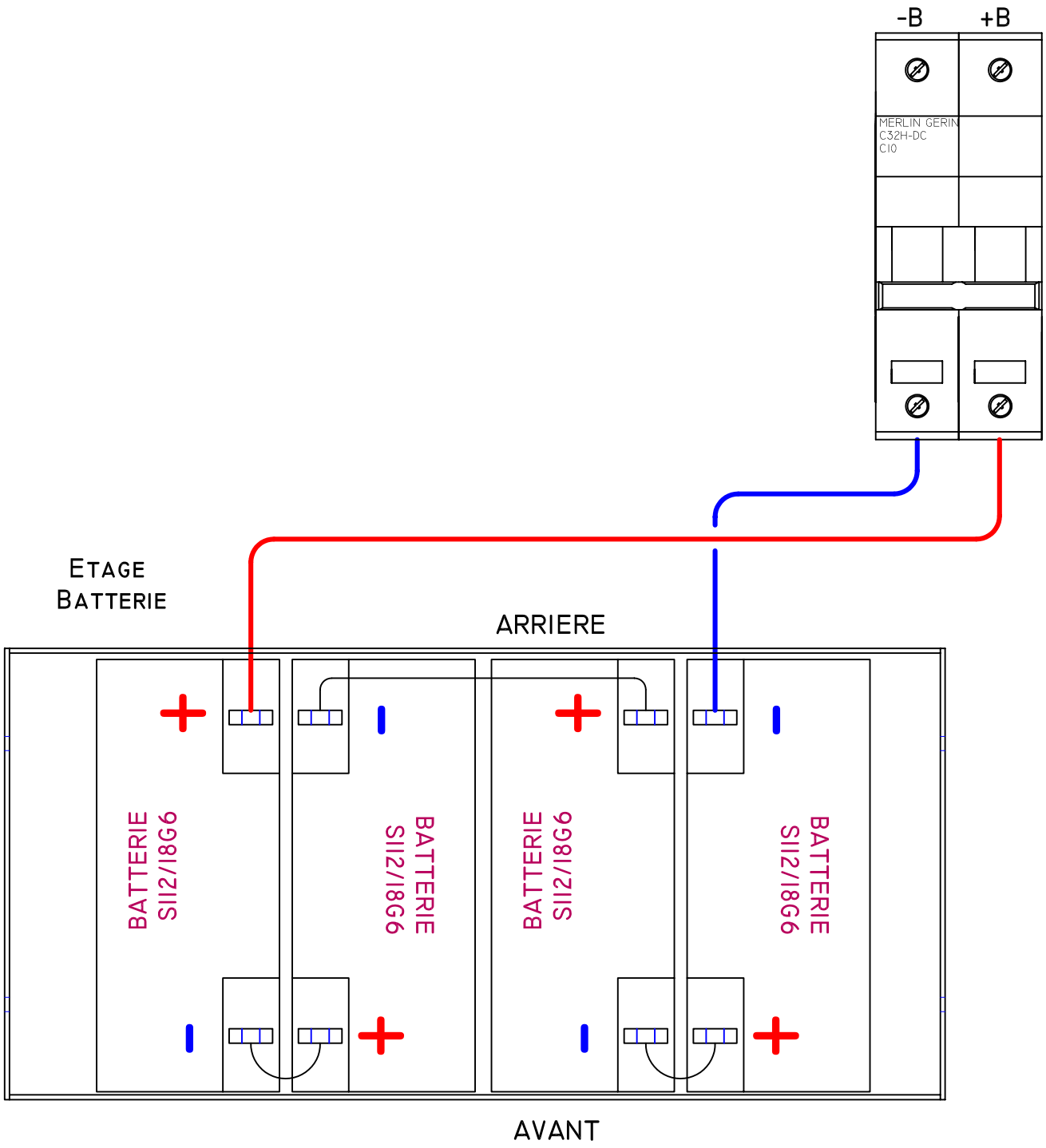
CABLAGE
CONTACT NC



CABLAGE
CONTACT NO



17/08/2020	ALIMENTATION 48V 300W-S-V6
	Code 113956



	Ed.1 :	Ed.2 :	Ed.3 :	Ed.4 :	Ed.5 :	E.S :	Echelle / *Scale* :
Mise à jour : *Correction :*	14/11/16	14/01/19				Tolérance : *Tolerance :*	Format *Size :* A4-V
Dessiné par : *Prepared by :*	T.BARDOT	T.BARDOT				Folio	1/1
Vérifié par : *Approved by :*	J.CARELLA	J.CARELLA					

Coffret "ALIMENTATION" 48Vdc 300W
Câblage Batteries

AS 0386.1 P2

PE	1	**Barrette de masse**	5 plots	*Earth bar*	ABB
FS	1	**Parafoudre**	DS215 - 230/G	*Lighting Protection*	CITEL
FU	1	**Parafoudre**	DS230 - 48DC	*Lighting Protection*	CITEL
B	4	**Batterie 12V 18Ah**	S 112/18 G6	*Battery 12V 18Ah*	POWERFIT
	1	**Rail DIN**	35x15 Long. 340 mm	*DIN Rail*	ERICO
D3 - D4	2	**Diode**	1N4004	*Diode*	THOMSON
D2 - D2	1	**Pont de Diode**	KBPC3510	*DiodeBridge*	THOMSON
K1 - K2	2	**Relais**	48Vdc	*Relay*	SCHRACK
U1	1	**Alimentation 48Vdc 300W**	HRP300 - 48	*48Vdc 300W Power*	MEAN WELL
A1	1	**Carte RVU**	RV 1521-3	*RVU Card*	SOLARCOM
QU1	1	**Disjoncteur 1P C4**	5SY61 MCB C4	*Circuit breaker C4*	SIEMENS
QU2	1	**Disjoncteur 1P C10**	5SY61 MCB C10	*Circuit breaker C10*	SIEMENS
QB	1	**Disjoncteur 2P C10**	5SY61 MCB C10	*Circuit breaker C10*	SIEMENS
QS	1	**Disjoncteur Ph+N C10**	DPN 5SY3004-7	*Circuit breaker Ph+ N C10*	SCHNEIDER
X1 X2 X3	3	**Borne M4/6**	115 116 07	*Terminal 4/6mm²*	ENTRELEC
-U1 -U2	2	**Borne M10/10**	125 120 17	*terminal 10/10mm²*	ENTRELEC
S1 S2	2	**Borne M10/10**	115 120 17	*terminal 10/10mm²*	ENTRELEC
PE5 PE6 PE7	3	**Presse étoupe PG11**	PG11	*Cable gland PG11*	CAPRI
PE2 PE3 PE4	3	**Presse étoupe PG 13**	PG 13	*Cable gland PG13*	CAPRI
PE1	1	**Presse étoupe PG 21**	PG 21	*Cable gland PG21*	CAPRI
ENV	1	**Coffret NSYS3D6425**	600 x 400 x 230	*Steel box*	SCHNEIDER

Repère	**Nb**	**Désignation**	**Rèfèrence**	***Designation***	**Fournisseur**

MISE A JOUR *UPDATE*	**Ed1 : 14/11/16**	**Ed2 : 14/01/19**	**Ed3 :**	**Ed4 :**	**Ed5 :**	**E.S.**	**FORMAT :** *SIZE :* **A4**	
ETABLI PAR: *DRAFT BY:*	T. BARDOT	T. BARDOT				**FOLIO** **1/1**		
VERIFIE PAR: *APPROVED BY:*	J. CARELLA	J. CARELLA						

COFFRET ALIMENTATION 48Vdc 300W

AS 0386.1 N

MEAN WELL

300W Single Output with PFC Function

HRP-300 series

Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- 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
- 1U low profile 41mm
- Built-in cooling fan ON-OFF control
- Built-in DC OK signal
- Built-in remote sense function
- 5 years warranty

SPECIFICATION

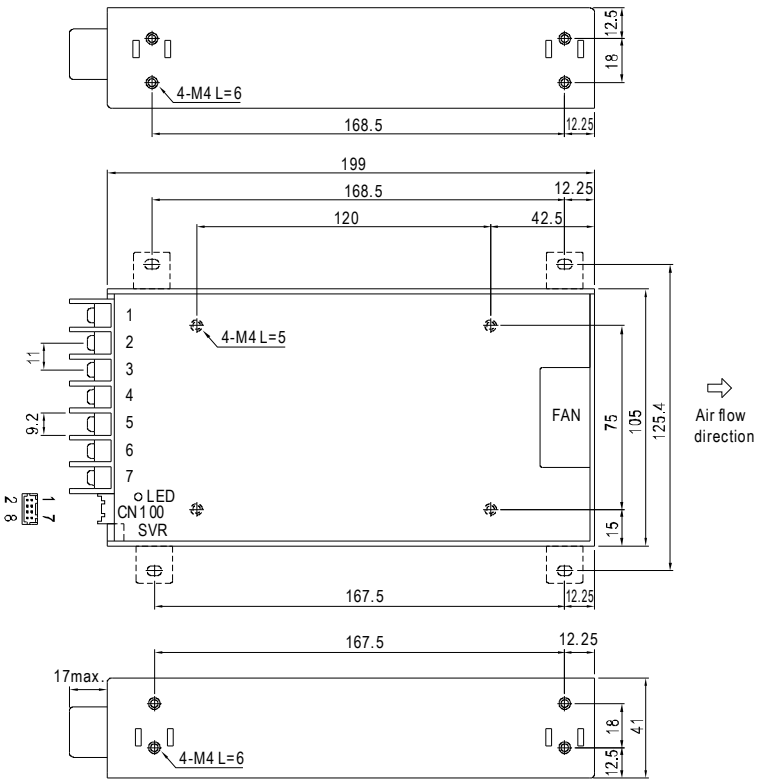
MODEL		HRP-300-3.3	HRP-300-5	HRP-300-7.5	HRP-300-12	HRP-300-15	HRP-300-24	HRP-300-36	HRP-300-48
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	60A	60A	40A	27A	22A	14A	9A	7A
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 40A	0 ~ 27A	0 ~ 22A	0 ~ 14A	0 ~ 9A	0 ~ 7A
	RATED POWER	198W	300W	300W	324W	330W	336W	324W	336W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-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	±2.5%	±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	1000ms, 50ms/230VAC 2500ms, 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>0.95/230VAC PF>0.99/115VAC at full load							
	EFFICIENCY (Typ.)	80%	82%	86%	88%	88%	87%	88%	89%
	AC CURRENT (Typ.)	4.5A/115VAC 2.5A/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 turns on : 3.3 ~ 5.6V ; PSU turns 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							
	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	UL60950-1, TUV EN60950-1 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 EN55022 (CISPR22) Class B, EN61000-3-2,-3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A							
OTHERS	MTBF	176K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	199*105*41mm (L*W*H)							
	PACKING	0.95Kg;15pcs/15.3Kg/0.69CUFT							

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. 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.

■ Mechanical Specification

Case No.980A Unit:mm



Terminal Pin No. Assignment

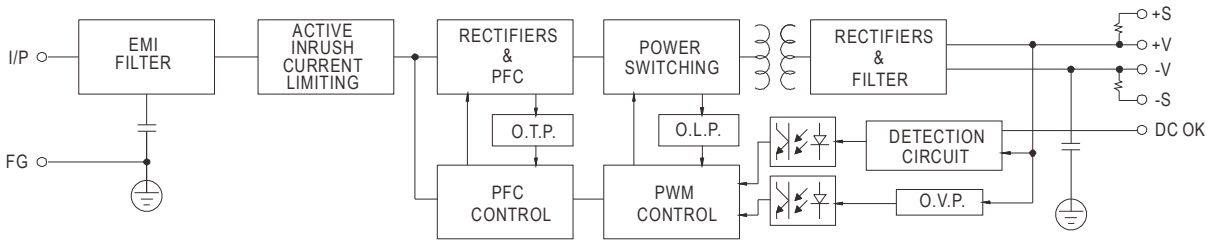
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ⏚		

Connector Pin No. Assignment (CN100) :
HRS DF11-08DP-2DS or equivalent

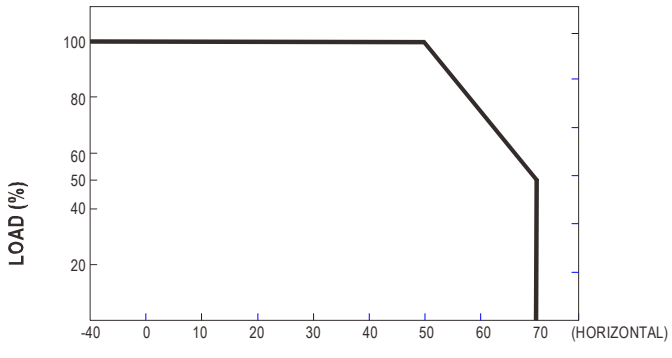
Pin No.	Assignment	Mating Housing	Terminal
1,2,4,6	NC	HRS DF11-8DS or equivalent	HRS DF11-**SC or equivalent
3	DC-OK		
5	GND		
7	+S		
8	-S		

■ Block Diagram

fosc : 70KHz

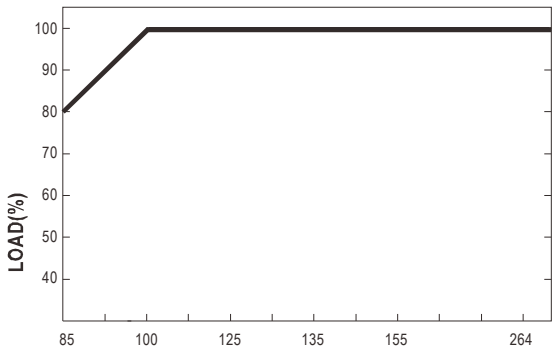


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Output Derating VS Input Voltage



INPUT VOLTAGE (V) 60Hz

GNB®
INDUSTRIAL POWER
A Division of Exide Technologies

Industrial Batteries / Network Power

Powerfit S100

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

Powerfit®

Powerfit S100

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
- > 3-5 years design life at 20 °C ambient temperature (80% re-maining capacity)
- > Container in ABS Material
- > 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
S106/1.2 S	NAS10601D2VW0SA	6	1.20	1.14	0.73	97.0	24.0	57.5	0.29	65.0	18.0	S-4.8
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

* ±2 mm


Nominal capacity 1.2 – 38 Ah C_{20}


Block battery


Grid plate


Recyclable

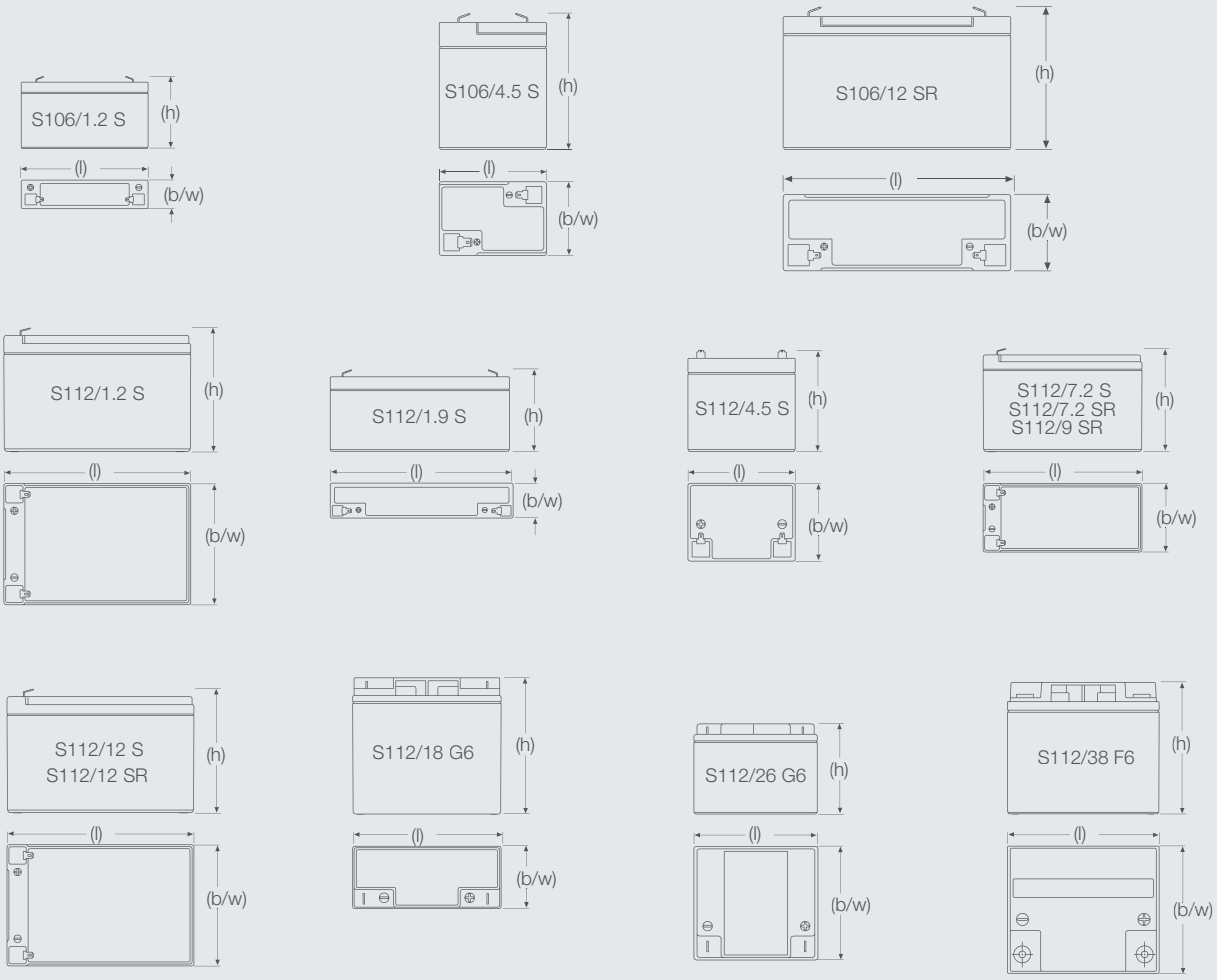
Valve regulated lead-acid batteries


Maintenance-free (no topping up)

Powerfit S100

The compact energy source with high performance

Dimensions

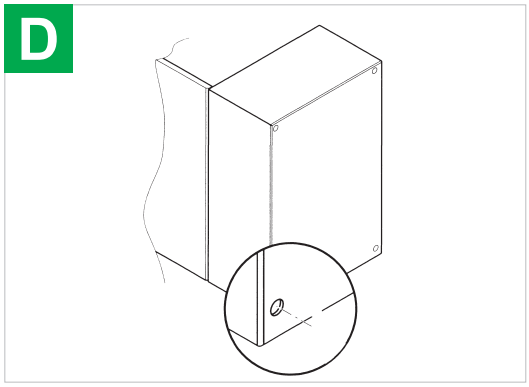


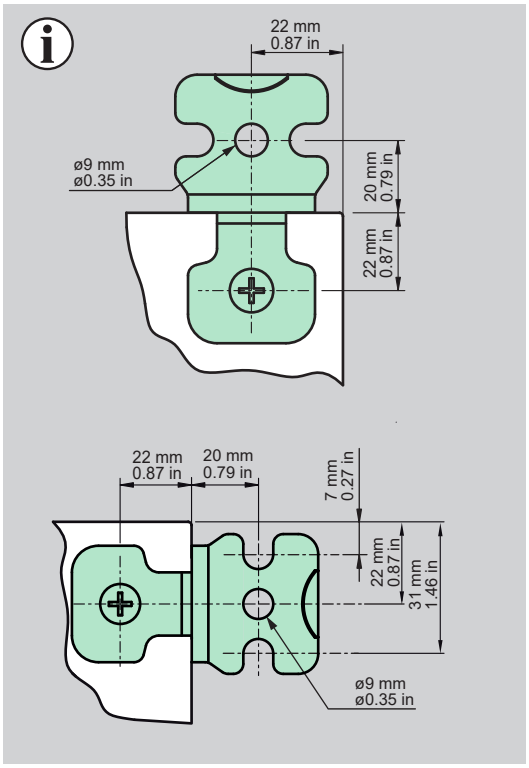
Container and terminal

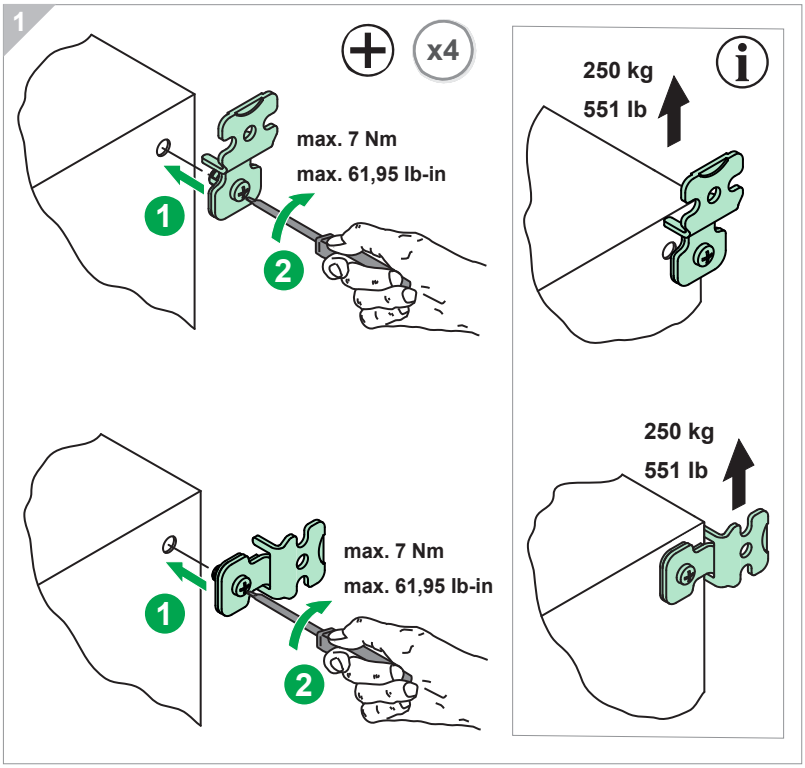
> Container: ABS

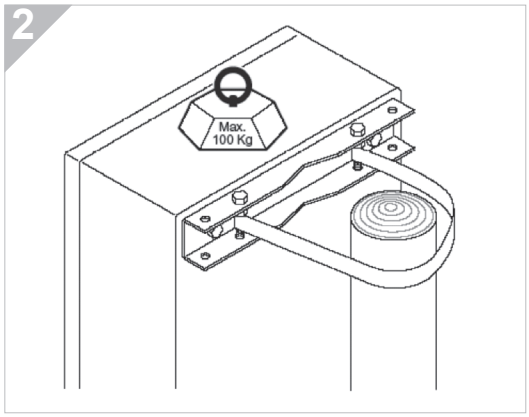
Applications

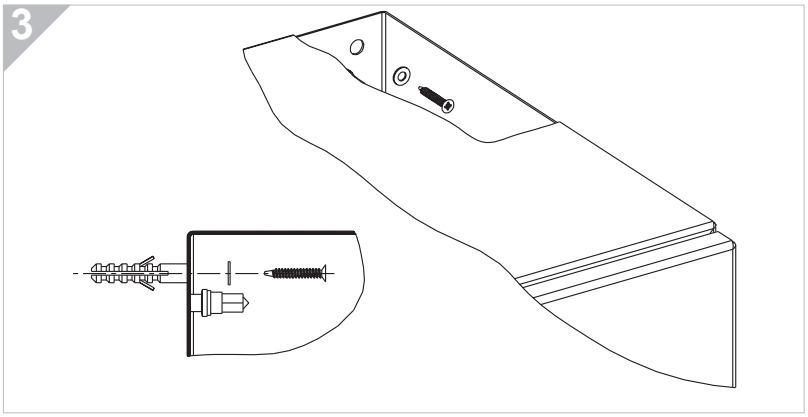
In addition to their suitability for general applications in security systems, the Powerfit S100 batteries are a reliable energy source for emergency lighting.











c UL US LISTED

To maintain the same UL type rating, all conduit fittings and other components installed in openings made in the enclosure must have its same ratings and only wall fixing bracket NSYPFCR may be used. When installed as a Type 2 or 3R enclosure, drill a drain hole (3.2 - 6.4 mm (1/8 - ¼ in) diameter) in the lowest part of the bottom wall.

It is the customer responsibility to fulfill requirements of section 19 (Openings) of UL508A Standard and Section 9.6 (Equipment openings)of UL50E Standard.
Il est de la responsabilité du client de respeter les exigences de la section 19 (Openings) de la Norme UL508A et la section 9.6 (Equipment openings) de la norme UL50E

Released for Manufacturing
Printed on 2018/11/14