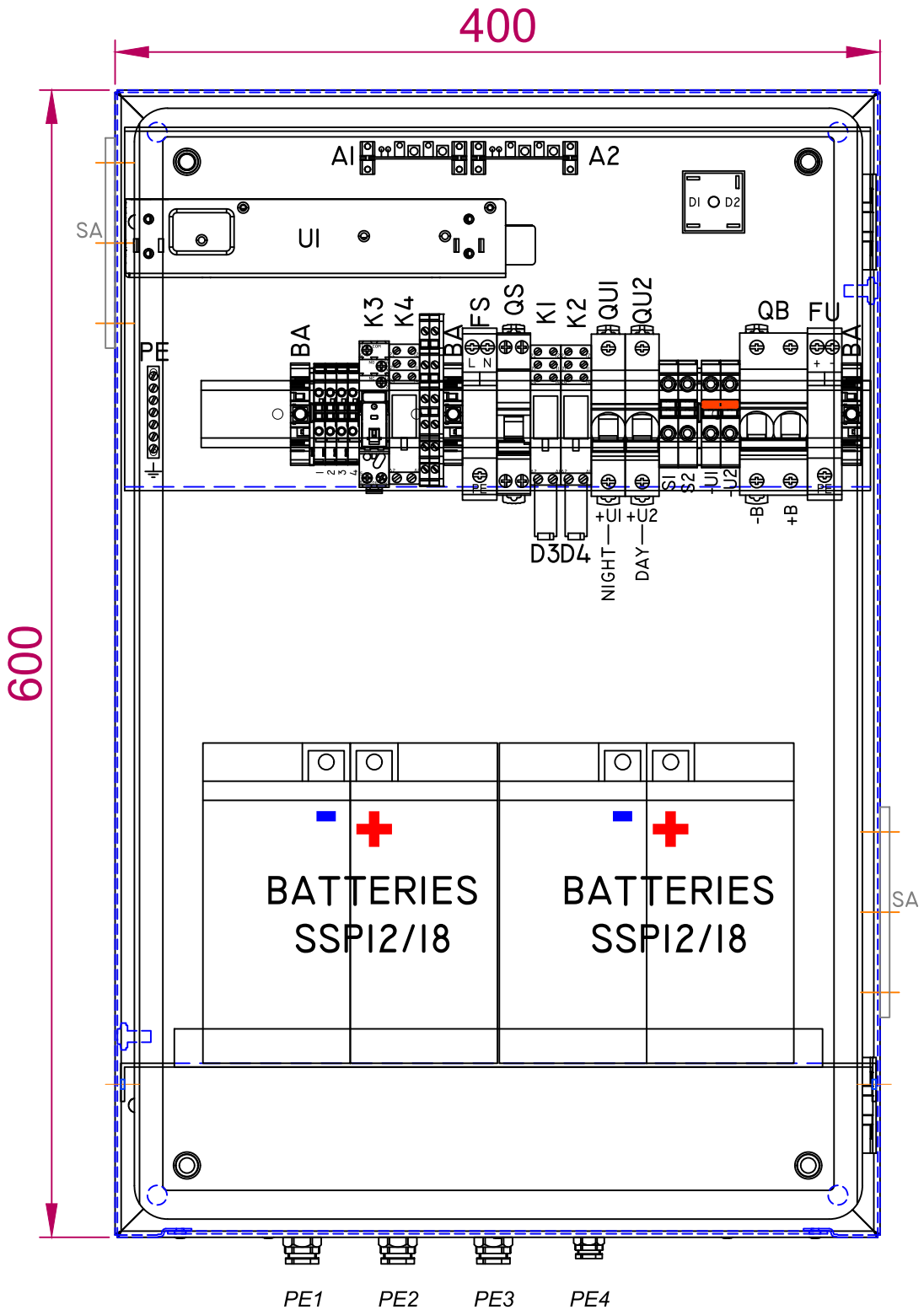
COFFRET « ALIMENTATION »

48Vdc 300W

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

113956-RW2

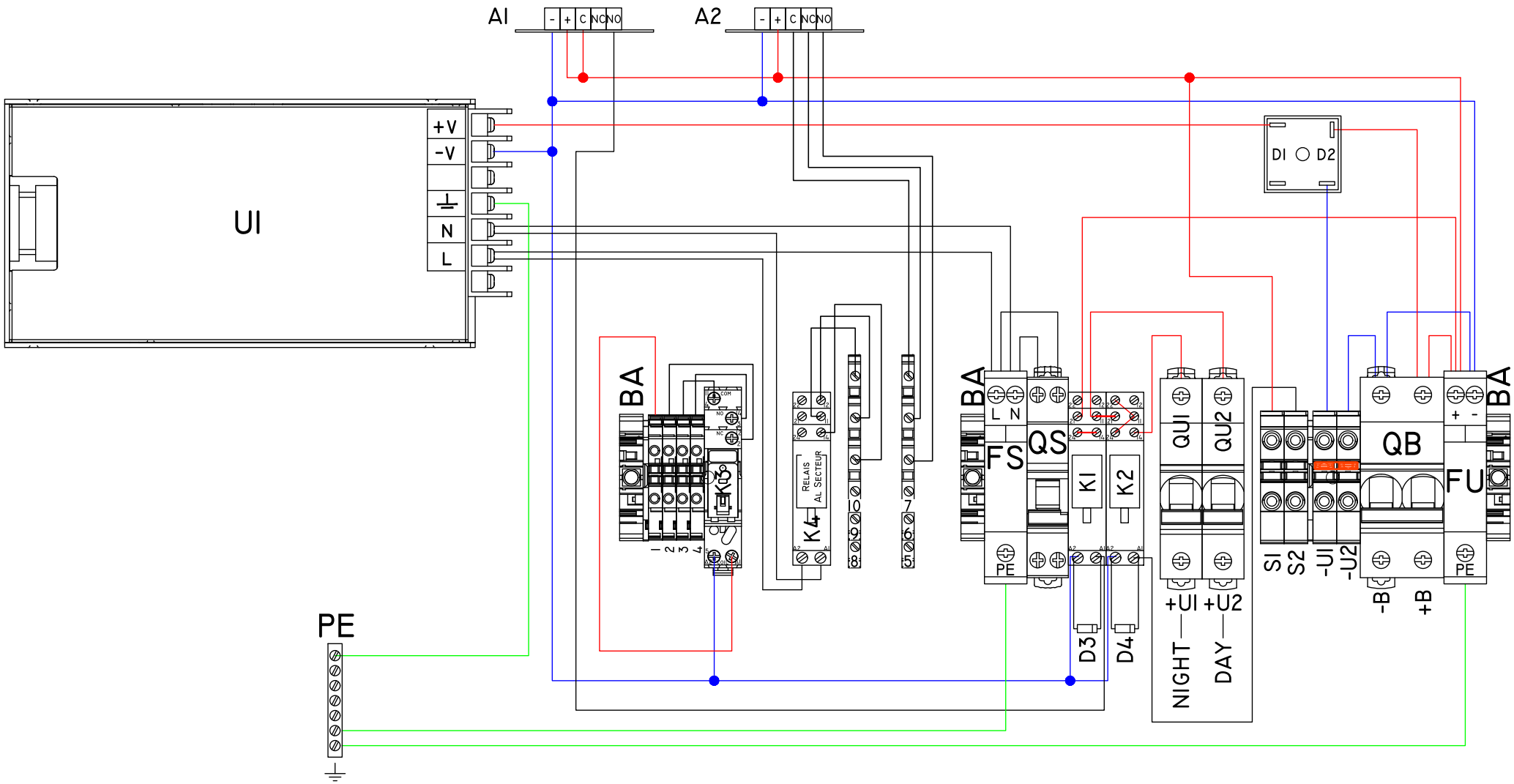


COFFRET "ALIMENTATION" 48V 300W	HAUTEUR: 600MM LARGEUR: 400MM PROFONDEUR: 230MM POIDS: 37KG

	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE*: 1:4 EN A4
MISE A JOUR: ***UPDATE:***	13.09.24					**TOLERANCE:** ISO 2768-M ***TOLERANCE:***	**FORMAT:** A4-V ***SIZE:***
DESSINE PAR: ***DRAW BY:***	S.SANTOS					FOLIO 1/1	***PE1***
VERIFIE PAR: ***APPROVED BY:***	T.LOISELLE						

COFFRET ALIMENTATION 48Vdc 300W
Bornier Relais

113956 - RW2



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MISE A JOUR: *UPDATE:*	13.09.24					TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
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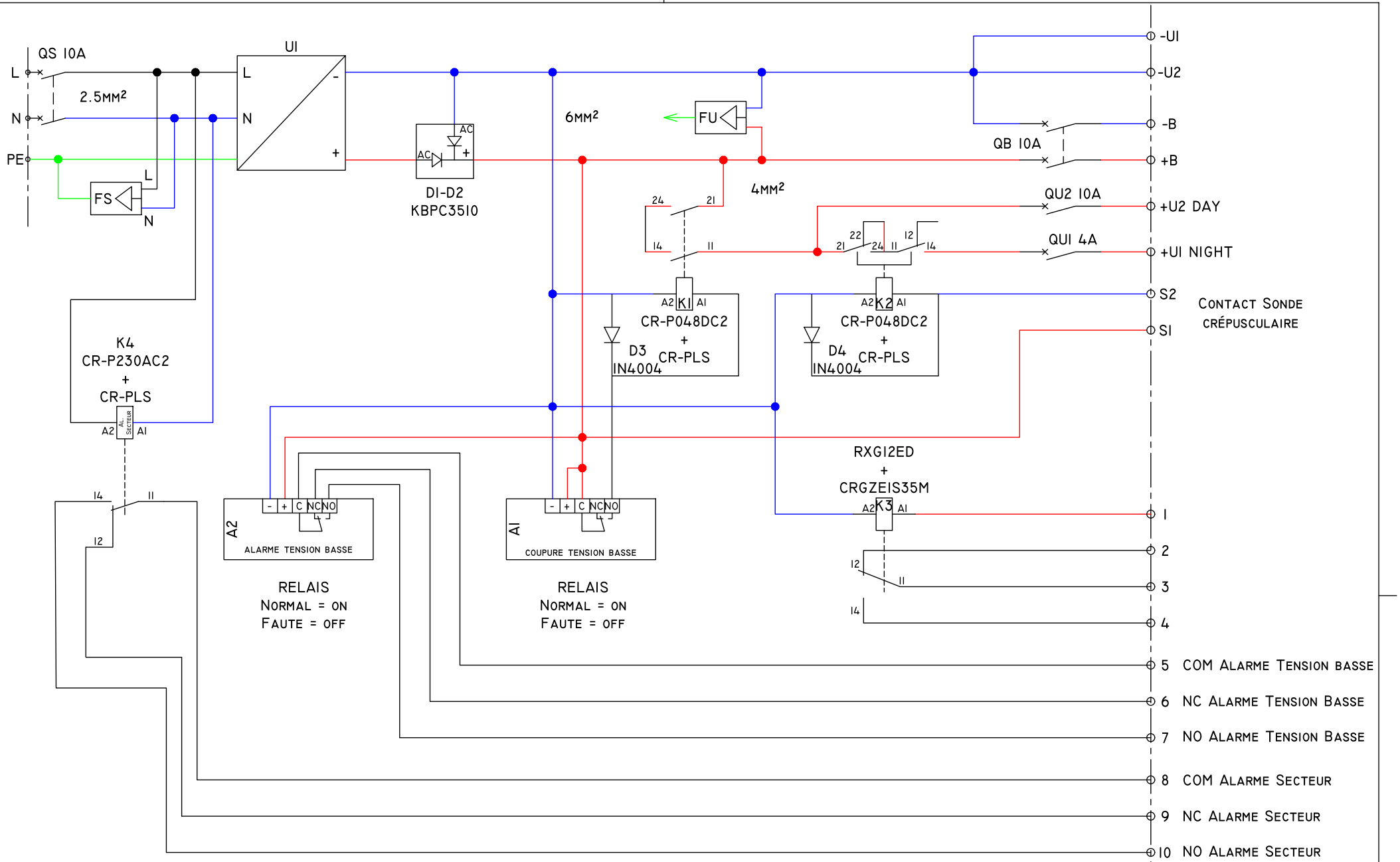
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 300W Bornier Relais							***113956 - RW2***



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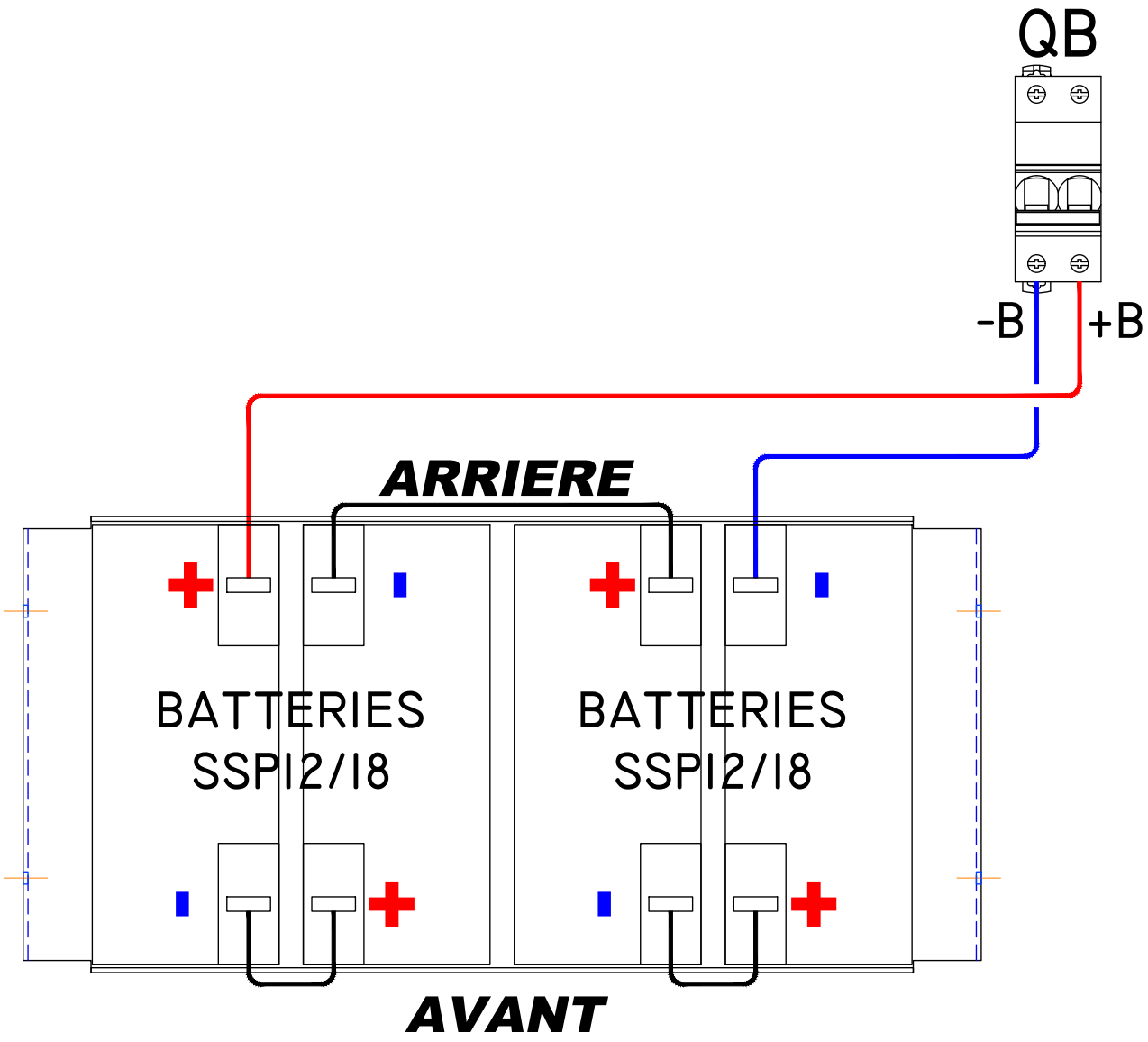
MISE A JOUR: *UPDATE:*	13.09.24					TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
DESSINE PAR: *DRAW BY:*	S.SANTOS					FOLIO 1/1	**P2**
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 300W Bornier Relais							***113956 - RW2***



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DESSINE PAR: *DRAW BY:*	S.SANTOS					FOLIO 1/1	**P3**
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 300W CABLAGE BATTERIE							***113956 - RW2***

	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	**Jumper bar JB10-2**	1SNK 910 302 R0000	*Jumper bar JB10-2*	ENTRELEC	
PE	1	**Barrette de masse**	5 plots	*Earth Bar*	ABB	
FS	1	**Parafoudre**	DS240S-230/G	*Lighting Protection*	CITEL	
FU	1	**Parafoudre**	DS230 - 48DC	*Lighting Protection*	CITEL	
BA	4	**Batterie 12V 18Ah**	SSP12/18	*Battery 12V 18Ah*	SACRED SUN	
	1	**Rail DIN**	35x15 Long. 350 mm	*DIN Rail*	ERICO	
D3 - D4	2	**Diode**	1N4004	*Diode*	THOMSON	
D1 - D2	1	**Pont de Diode**	KBPC3510	*Diode Bridge*	THOMSON	
K3	1	**Relais 48V**	RXG12ED	*Relay48V*	SCHNEIDER	
K3	1	**Socle Relais**	RGZE1S35M	*Relay*	SCHNEIDER	
K1 - K2 - K4	3	**Etrier Relais**	CR-PH 1SVR405659R0000	*Relay Holder*	ABB	
K4	1	**Relais d'interface enfichable**	CR-P230AC2 1SVR405601R3000	*Pluggable interface relay*	ABB	
K1 - K2	2	**Relais d'interface enfichable**	CR-P048DC2 1SVR405601R6000	*Pluggable interface relay*	ABB	
K1 - K2 - K4	3	**Socle Relais**	CR-PLS 1SVR405650R0000	*Relay*	ABB	
U1	1	**Alimentation 48Vdc 300W**	HRP-300 48	*48Vdc 300W Power*	MEAN WELL	
A2	2	**Guide Carte**	VMCG-90-MPBX-K	*Card Guide*	RS	
A2	1	**Carte RVB**	RV 1521-3	*RVB Card*	SOLARCOM	
A1	2	**Guide Carte**	VMCG-90-MPBX-K	*Card Guide*	RS	
A1	1	**Carte RUV**	RV 1521-3	*RVU Card*	SOLARCOM	
QU1	1	**Disjoncteur 1P C4**	IC60N A9F74104	*Circuit Breaker C4*	SCHNEIDER	
QU2	1	**Disjoncteur 1P C10**	IC60N A9F77110	*Circuit Breaker C10*	SCHNEIDER	
QB	1	**Disjoncteur 2P C10**	IC60N A9F77210	*Circuit Breaker C10*	SCHNEIDER	
QS	1	**Disjoncteur Ph+N C10**	IDT40T A9P22610	*Circuit Breaker Ph+ N C10*	SCHNEIDER	
X1 X2 X3 X4	4	**Borne ZS6**	1SNK 506 010 R0000	*Terminal ZS6*	ENTRELEC	
. -U1 -U2	2	**Borne ZS16**	1SNK 510 010 R0000	*Terminal ZS16*	ENTRELEC	
S1 S2	2	**Borne ZS16**	1SNK 510 010 R0000	*Terminal ZS16*	ENTRELEC	
BA	3	**Butée d'arrêt BAM4**	1SNK 900 001 R0000	*Terminal Block*	ENTRELEC	
	1	**Flasque d'xetrémité ES4**	1SNK 505 910 R0000	*Protection Terminal*	ENTRELEC	
	4	**Patte de Fixation Coffret**	NSYAEFPFXSC	*Fixing Chest*	SCHNEIDER	
PE4	1	**Presse étoupe PG11**	PG11	*Cable gland PG11*	CAPRI	
PE1 à PE3	3	**Presse étoupe PG13**	PG 13	*Cable gland PG13*	CAPRI	
SA	2	**Grille de Ventilation**	LM 10 10 G	*Ventilation grid*	NICOLL	
ENV	1	**Coffret 600 X 400 X 230**	NSYS3D6425	*Steel box*	SCHNEIDER	

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

MISE A JOUR: *UPDATE:*	**Ed1: 13/09/24**	**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 300W

113956 - RW2 - N

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

User's Manual

■ GTIN CODE

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

AS/NZS 62368.1 UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

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.)	3.5A/115VAC 1.8A/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	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, AS/NZS 62368.1 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 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	1487.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.4K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	199*105*41mm (L*W*H)							
	PACKING	0.95Kg;15pcs/15.3Kg/0.79CUFT							

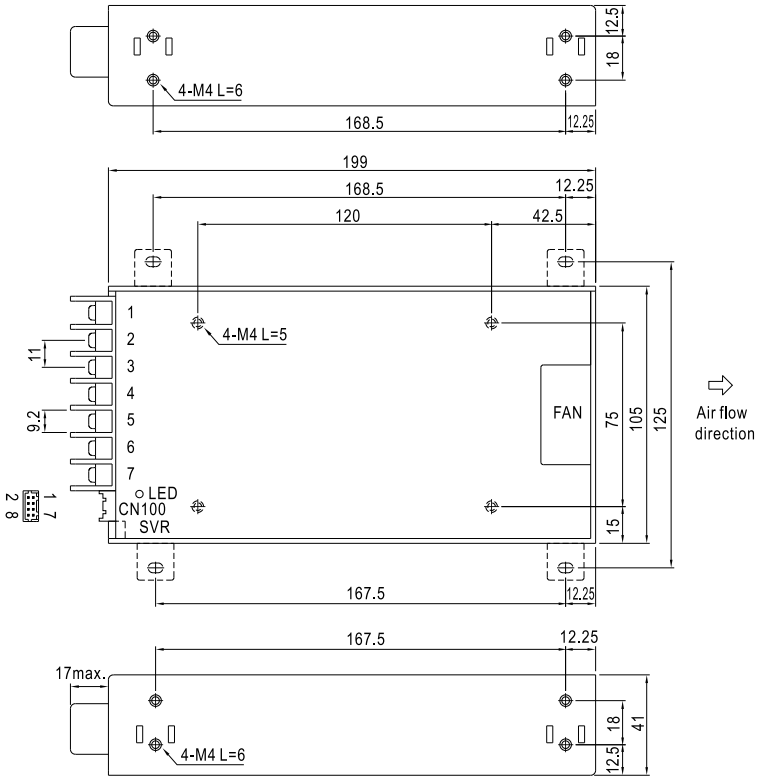
NOTE

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.980A Unit:mm



Terminal Pin No. Assignment

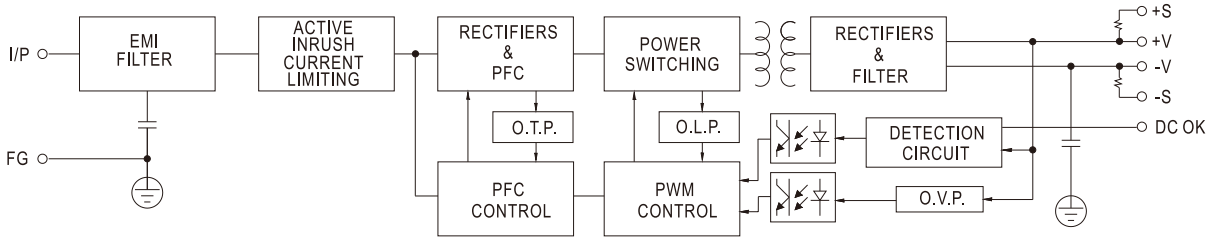
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ⏚		

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

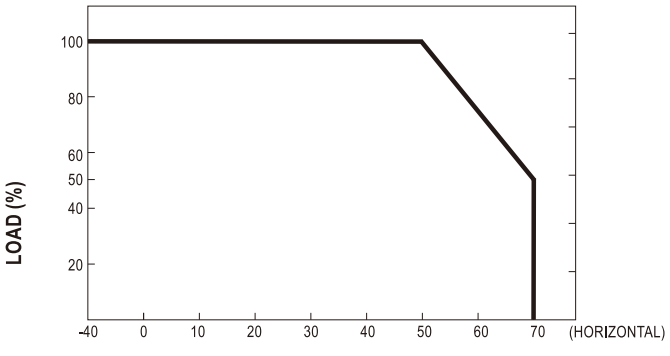
Pin No.	Assignment	Mating Housing	Terminal
1,2,4,6	NC	HRS DF11-8DS or equivalent	HRS DF11-**SC or equivalent
3	DC-OK		
5	GND		
7	+S		
8	-S		

■ Block Diagram

PWM fosc : 70KHz

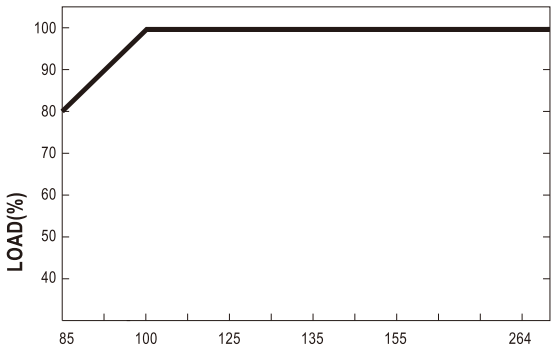


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Output Derating VS Input Voltage



INPUT VOLTAGE (V) 60Hz

SP Series

SSP12-18 12V18Ah

SP series VRLA battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

Benefits

- Standard Commercial according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

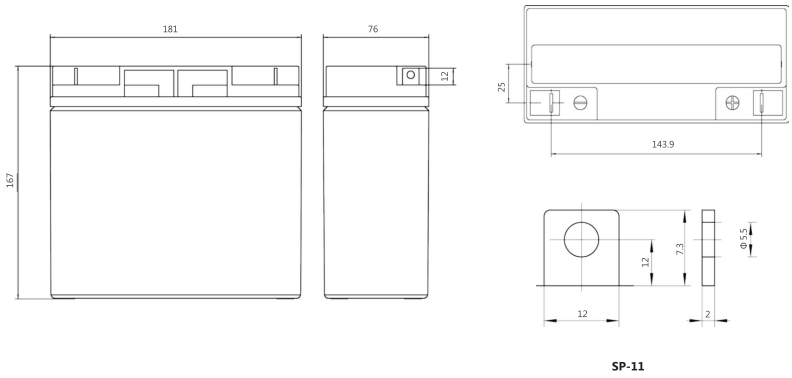
Applications

- UPS units
- Emergency power
- Starting generators
- EPS units

Standards

- IEC 61056-1/2
- JIS C8702-1/2
- EUROBAT guide

Drawing



SP-11

Specifications

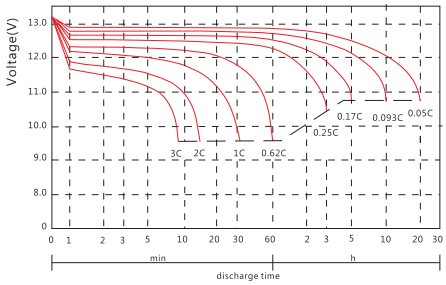
Battery Model	SSP12-18			
Design Life (years, 25℃)	5			
Capacity (Ah, 25℃)	20HR (0.90A, 1.75V)	10HR (1.67A, 1.75V)	5HR (3.204A, 1.75V)	1HR(11.45A, 1.70V)
	18	16.7	16.02	11.45
Dimensions (mm)	Length	Width	Height	Total Height
	181	76	167	167
Approx. Weight (kg)	5.4			
Reference Internal Resistance (mΩ)	14 (full charged @ 25℃)			
Maximum Discharge Current (A/5 Sec.)	270			
Self-Discharge (25℃)	⩽3% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.45 (-3.5mV/℃/cell), max charge current: 5.4 A		2.27 (-3.5mV/℃/cell)	
Short Circuit Current (A)	460			

Discharge Data

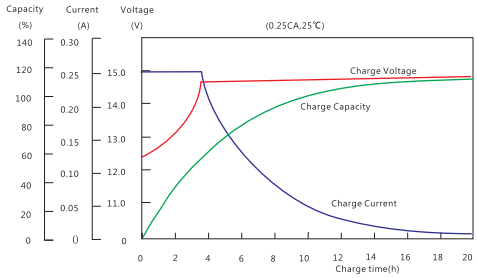
Constant Current Discharge Data (25℃, A)												
End Voltage (V/cell)	min					h						
	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	46.41	34.18	27.33	19.88	14.77	11.73	8.581	6.900	5.096	3.287	1.709	0.918
1.65	44.75	33.28	26.83	19.54	14.63	11.57	8.473	6.820	5.032	3.258	1.694	0.911
1.67	43.45	33.00	26.67	19.43	14.46	11.52	8.424	6.787	5.012	3.249	1.688	0.907
1.70	42.83	32.69	26.45	19.28	14.41	11.45	8.391	6.753	4.987	3.233	1.684	0.905
1.75	38.45	30.96	25.38	18.65	13.92	11.20	8.251	6.660	4.938	3.204	1.670	0.900
1.80	35.18	28.89	24.03	17.90	13.46	10.94	8.110	6.567	4.879	3.169	1.655	0.895

Constant Power Discharge Data (25℃, W/cell)												
End Voltage (V/cell)	min					h						
	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	84.61	64.37	52.36	38.43	28.79	23.00	16.89	13.628	10.102	6.537	3.405	1.830
1.65	82.45	63.05	51.55	37.87	28.59	22.73	16.73	13.500	9.997	6.492	3.383	1.823
1.67	80.47	62.74	51.38	37.73	28.30	22.65	16.66	13.46	9.968	6.481	3.374	1.817
1.70	79.60	62.39	51.04	37.51	28.23	22.55	16.61	13.41	9.930	6.455	3.370	1.816
1.75	72.03	59.37	49.13	36.41	27.38	22.12	16.37	13.25	9.850	6.412	3.349	1.808
1.80	66.55	55.68	46.75	35.06	26.53	21.68	16.12	13.094	9.749	6.353	3.326	1.800

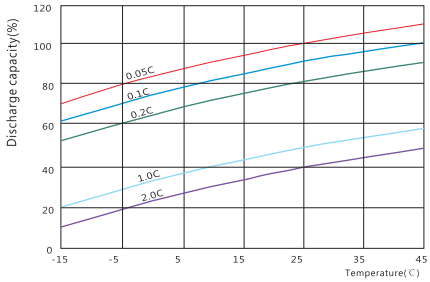
Performance Curve



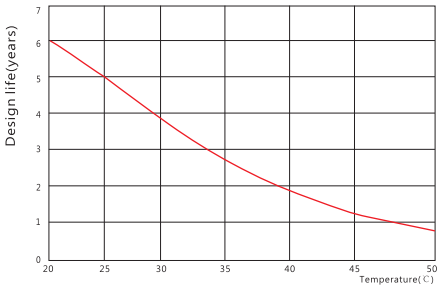
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

Sacred Sun Power Sources Co., Ltd.
Add: No.1 Shengyang Road, Qufu 273100 PRC
Tel: +86-537-4422313 Fax: +86-537-4411980
Email: sales@sacredsun.cn

Sacred Sun Hong Kong Co., Limited
Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong
Email: admin.hk@sacredsun.hk

Sacred Sun Asia Pacific Pte Ltd.
Add: 1 Ubi View, #04-12, Focus One, Singapore 408555
Email: admin.sg@sacredsun.sg

Sacred Sun Europe SARL
Add: ZAE Fontaine, 33210 Fargues, France
Email: admin.eu@sacredsun.eu

Sacred Sun MEA FZE
Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE
Email: admin.ae@sacredsun.ae

ISO9001 ISO14001 ISO18001 SA8000

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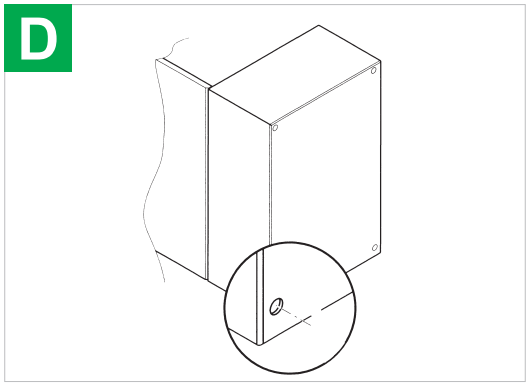

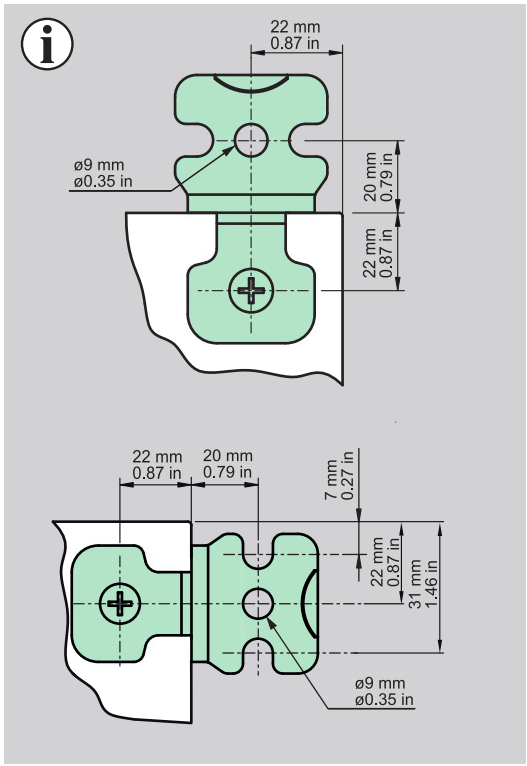

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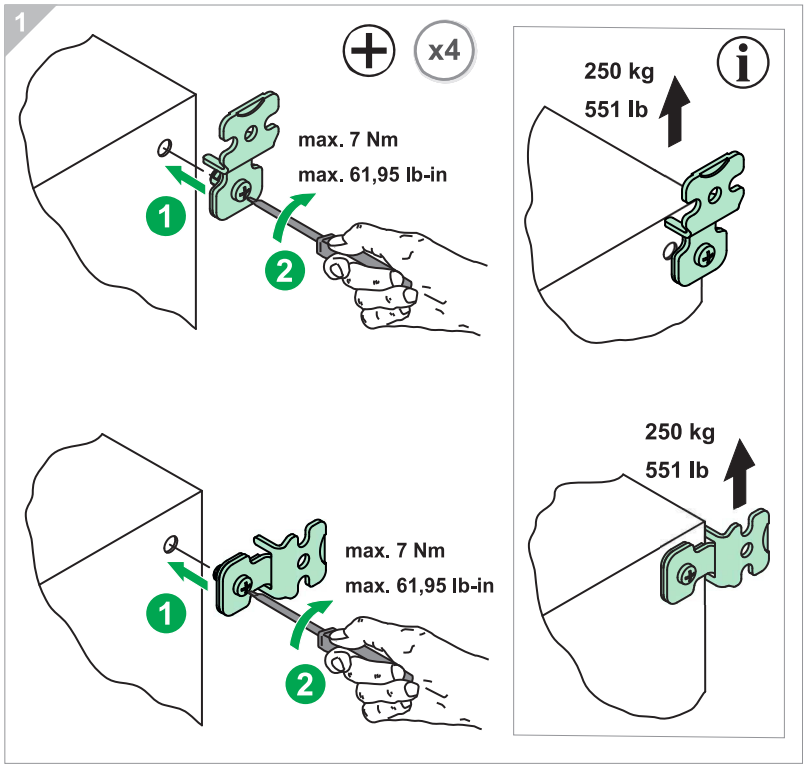

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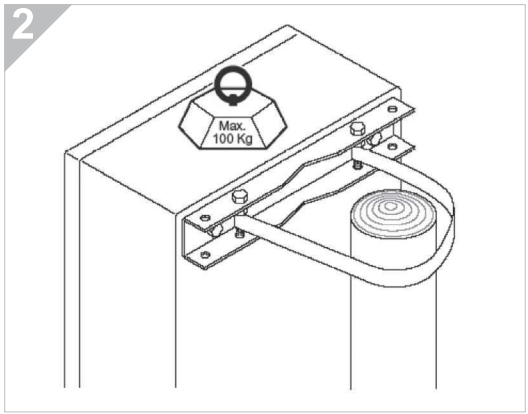

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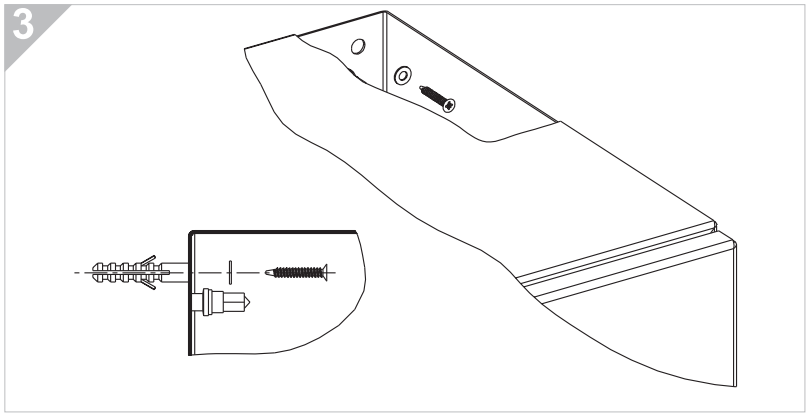

To maintain the same UL type rating, all conduit fittings and other components installed in openings made in the enclosure must have its same ratings and only wall fixing bracket NSYPFCR may be used. When installed as a Type 2 or 3R enclosure, drill a drain hole (3.2 - 6.4 mm (1/8 - ¼ in) diameter) in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

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