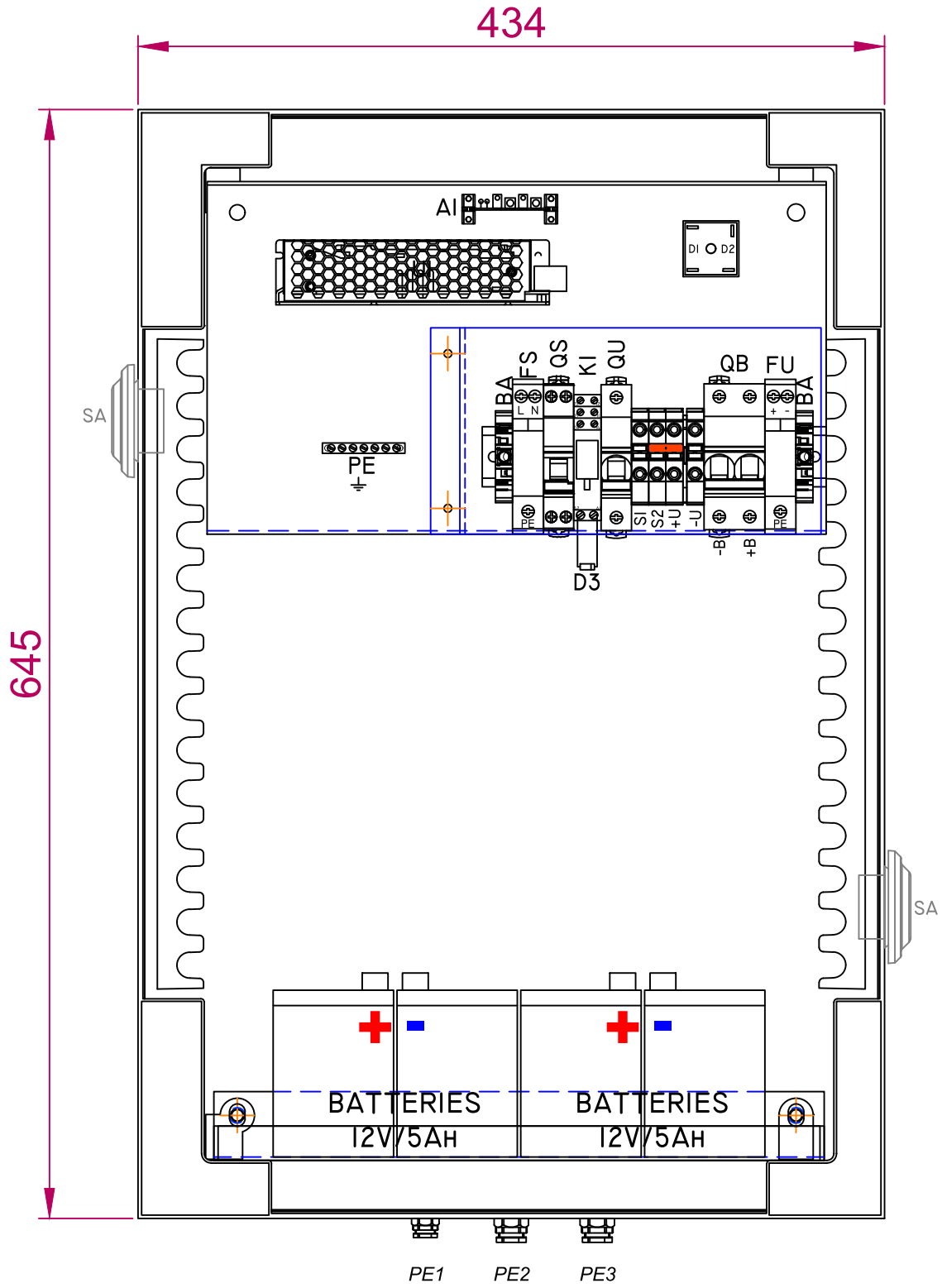
COFFRET « ALIMENTATION »

48Vdc 150W

113951EL

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



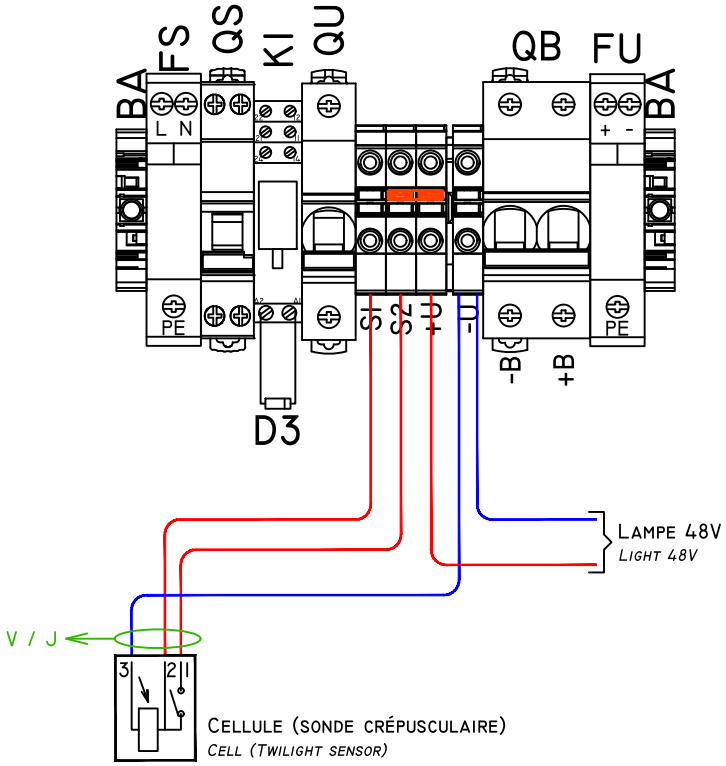
COFFRET "ALIMENTATION" 48V 150W	HAUTEUR: 647MM LARGEUR: 436MM PROFONDEUR: 250MM

	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE*: 1:4 EN A4
MISE A JOUR: ***UPDATE:***	04.02.25					**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						

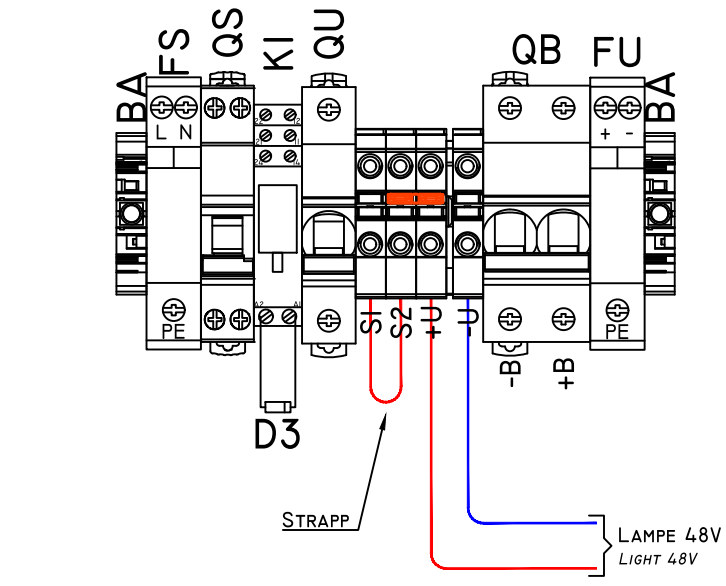
COFFRET ALIMENTATION 48Vdc 150W

113951EL

BRANCHEMENT AVEC SONDE CREPUSCULAIRE
CONNECTION WITH TWILIGHT SENSOR



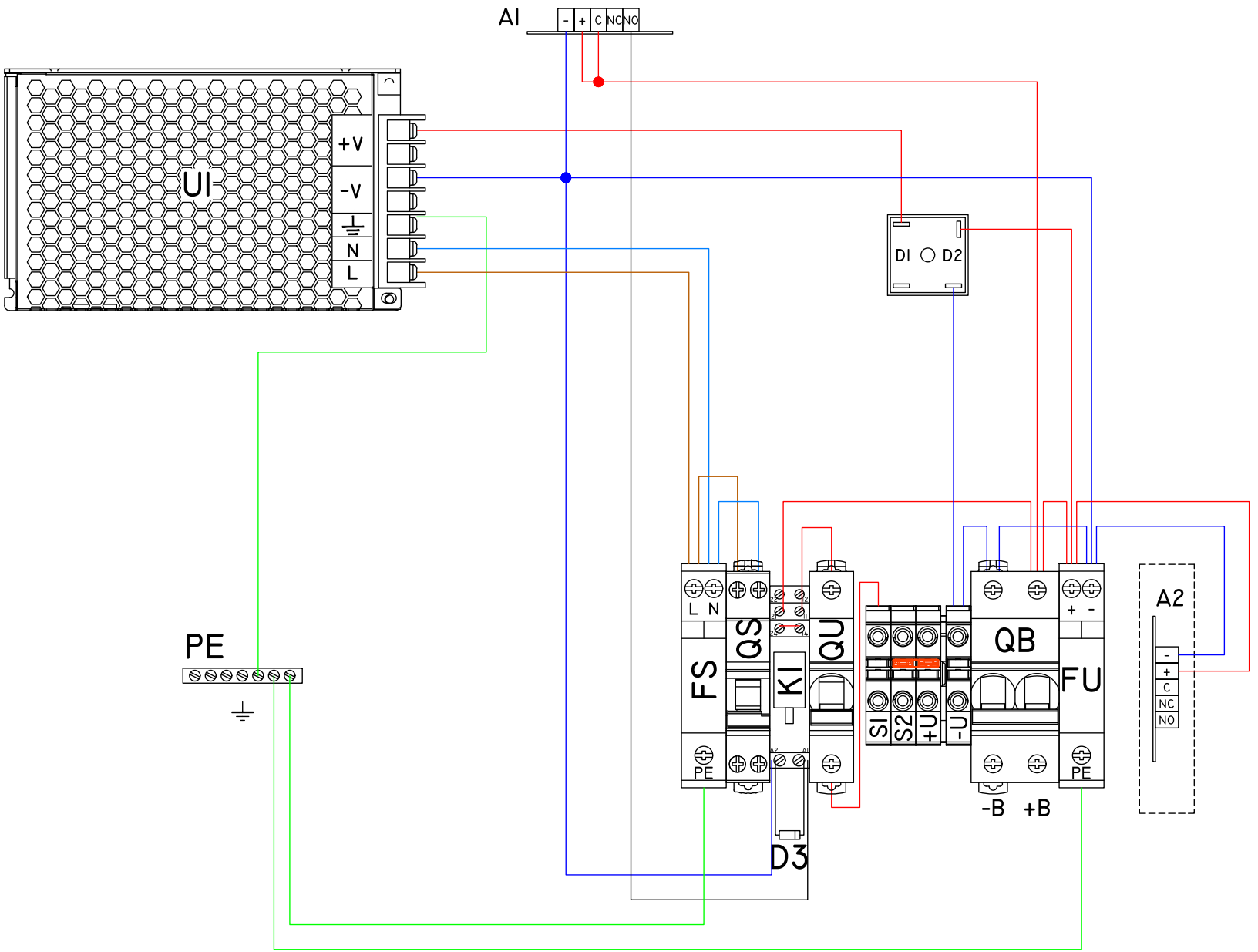
BRANCHEMENT SANS SONDE CREPUSCULAIRE
CONNECTION WITHOUT TWILIGHT SENSOR



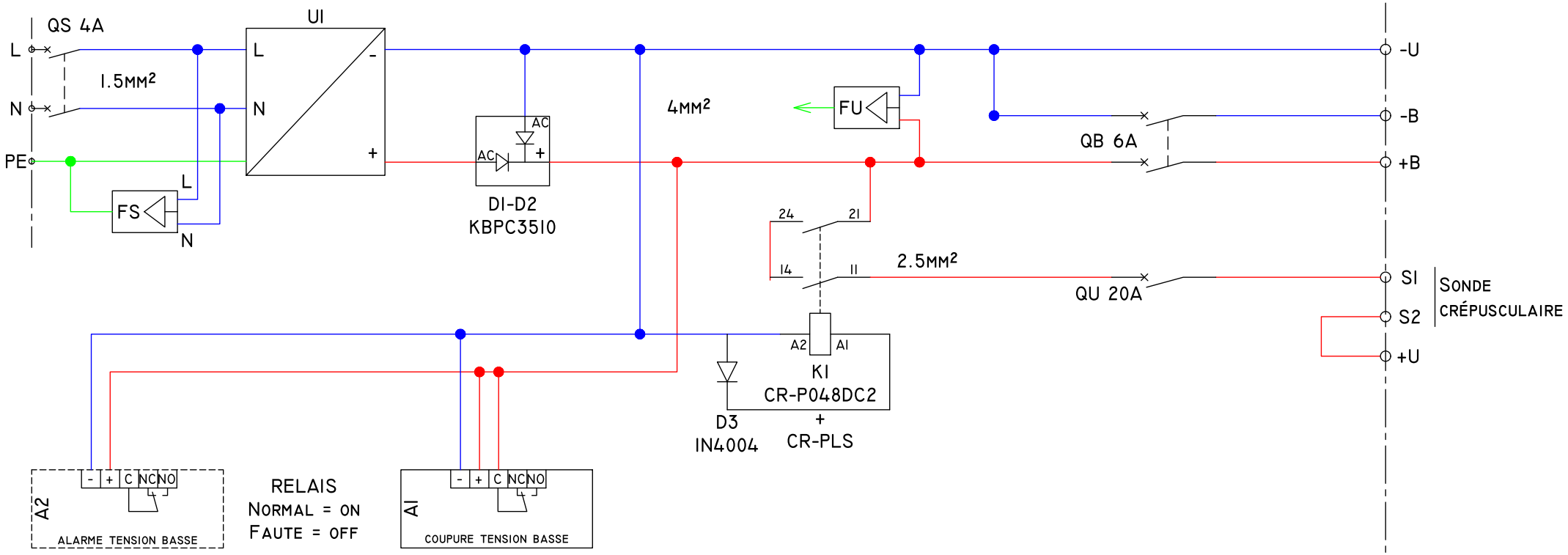
	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	**ECHELLE / *SCALE*:** 1:4 EN A4
MISE A JOUR: ***UPDATE:***	04.02.25					**TOLERANCE:** ISO 2768-M ***TOLERANCE:***	**FORMAT:** A4-V ***SIZE:***
DESSINE PAR: ***DRAW BY:***	S.SANTOS					**FOLIO** 1/1	***PE2***
VERIFIE PAR: ***APPROVED BY:***	T.LOISELLE						

COFFRET ALIMENTATION 48Vdc 150W

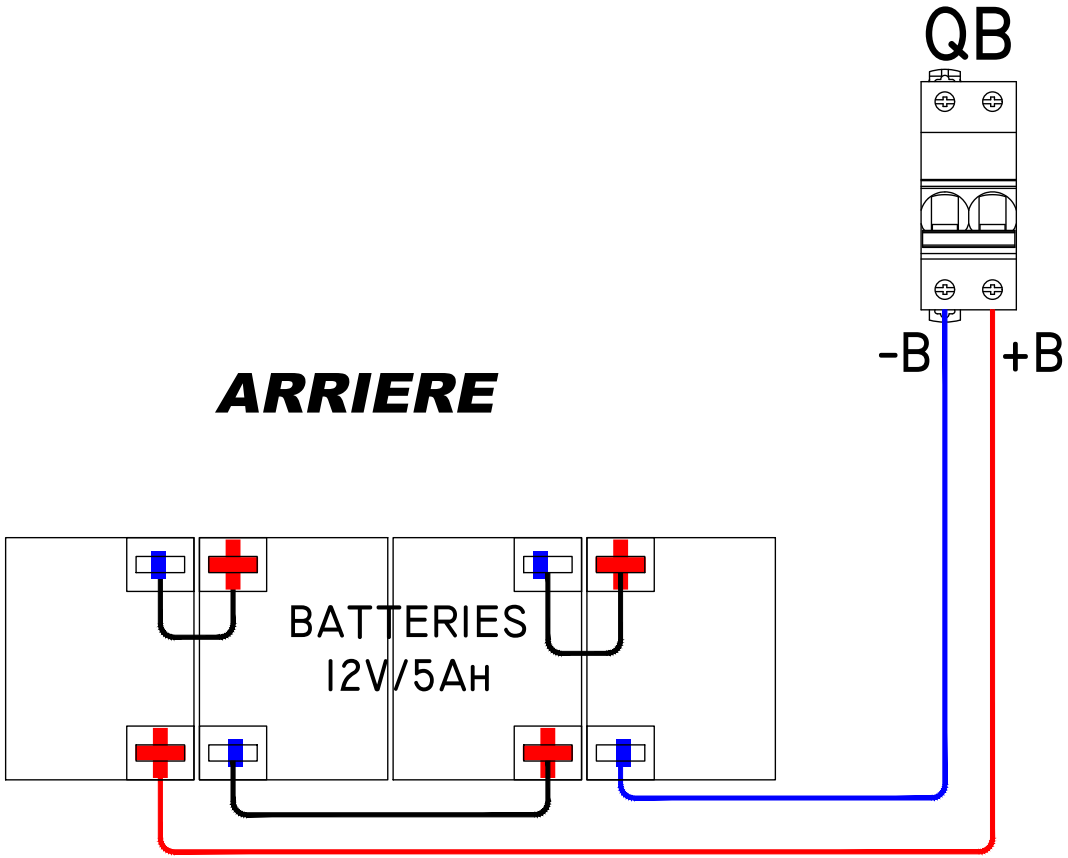
113951EL



	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE*: 1:4 EN A4
MISE A JOUR: *UPDATE:*	04.02.25					TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
DESSINE PAR: *DRAW BY:*	S.SANTOS					FOLIO 1/1	**P1**
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 150W							***113951EL***



	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE:* 1:4 EN A4
MISE A JOUR: *UPDATE:*	04.02.25	20.10.26				TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
DESSINE PAR: *DRAW BY:*	S.SANTOS	S.SANTOS				FOLIO 1/1	**P2**
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE	JM.FOSSE					
COFFRET ALIMENTATION 48Vdc 150W							***113951EL***



	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / *SCALE*: 1:4 EN A4
MISE A JOUR: *UPDATE:*	04.02.25					TOLERANCE: ISO 2768-M *TOLERANCE:*	FORMAT: A3-H *SIZE:*
DESSINE PAR: *DRAW BY:*	S.SANTOS					FOLIO 1/1	P3
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE						
COFFRET ALIMENTATION 48Vdc 150W							113951EL

PE	1	**Barrette de masse**	5 plots	*Earth Bar*	
FS	1	**Parafoudre**	DS240S-230/G	*Lighting Protection*	
FU	1	**Parafoudre**	DS230 - 48DC	*Lighting Protection*	
BA	4	**Batterie**	12V 5Ah	*Battery 12V 5Ah*	
D3	1	**Diode**	Diode	*Diode*	
D1 - D2	1	**Pont de Diode**	4 Broches	*Diode Bridge*	
K1	1	**Relais**	Etrier	*Relay Holder*	
K1	1	**Relais**	Interface enfichable	*Pluggable interface relay*	
K1	1	**Relais**	Socle	*Relay*	
U1	1	**Alimentation**	48Vdc 150W	*48Vdc 150W Power*	
A1	2	**Guide Carte**	Montage vertical	*Card Guide*	
A1	1	**Carte**	RUV	*RVU Card*	
QU	1	**Disjoncteur**	1P C20	*Circuit Breaker C20*	
QB	1	**Disjoncteur**	2P C6	*Circuit Breaker C6*	
QS	1	**Disjoncteur**	Ph+N C4	*Circuit Breaker Ph+ N C4*	
	1	**Jumper bar**	JB10-2	*Jumper bar JB10-2*	
S1/S2/+U/-U	4	**Borne**	ZS16	*Terminal ZS16*	
BA	2	**Butée d'arrêt**	BAM4	*Terminal Block*	
	1	**Flasque d'xetrémité**	ES4	*Protection Terminal*	
	1	**Rail DIN**	35x15 Long. 200 mm	*DIN Rail*	
	4	**Patte de Fixation Coffret**	NSYPFPLMG	*Fixing Chest*	
PE2 - PE3	2	**Contre Ecrou**	M20	*Cable Gland*	
PE2 - PE3	2	**Presse Etoupe**	M20	*Cable Gland*	
PE1	1	**Contre Ecrou**	M16	*Cable Gland*	
PE1	1	**Presse Etoupe**	M16	*Cable Gland*	
SA	2	**Ouie d'aération**	Ouie champignon	*Air vent*	
ENV	1	**Coffret**	647 X 436 X 250	*Polyester box*	

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

MISE A JOUR: *UPDATE:*	**Ed1: 04/02/25**	**Ed2: 20/10/26**	**Ed3:**	**Ed4:**	**Ed5:**	**E.S.**	**FORMAT: A4** *SIZE:*
ETABLI PAR: *DRAFT BY:*	S.SANTOS	S.SANTOS				**FOLIO**	
VERIFIE PAR: *APPROVED BY:*	T.LOISELLE	JM.FOSSE				**1/1**	

COFFRET ALIMENTATION 48Vdc 150W

113951EL - N

150W Single Output with PFC Function

HRP-150 series



User's Manual

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
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- Built-in remote sense function
- 5 years warranty

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

SPECIFICATION

MODEL		HRP-150-3.3	HRP-150-5	HRP-150-7.5	HRP-150-12	HRP-150-15	HRP-150-24	HRP-150-36	HRP-150-48
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	30A	26A	20A	13A	10A	6.5A	4.3A	3.3A
	CURRENT RANGE	0 ~ 30A	0 ~ 26A	0 ~ 20A	0 ~ 13A	0 ~ 10A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A
	RATED POWER	99W	130W	150W	156W	150W	156W	154.8W	158.4W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-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	±2.5%	±2.5%	±2.5%	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%
	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	3000ms, 50ms/230VAC 3000ms, 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.)	78.5%	85%	87%	88%	88%	88%	89%	89%
	AC CURRENT (Typ.)	1.7A/115VAC 0.9A/230VAC							
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC							
	LEAKAGE CURRENT	<1mA / 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							
ENVIRONMENT	WORKING TEMP.	-40 ~ +70℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-50 ~ +85℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.04%/℃ (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/EN55024,BS EN/EN61000-6-2,heavy industry level,criteria A,EAC TP TC 020							
OTHERS	MTBF	238.8K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	159*97*38mm (L*W*H)							
	PACKING	0.61Kg; 24pcs/15.6Kg/0.9CUFT							

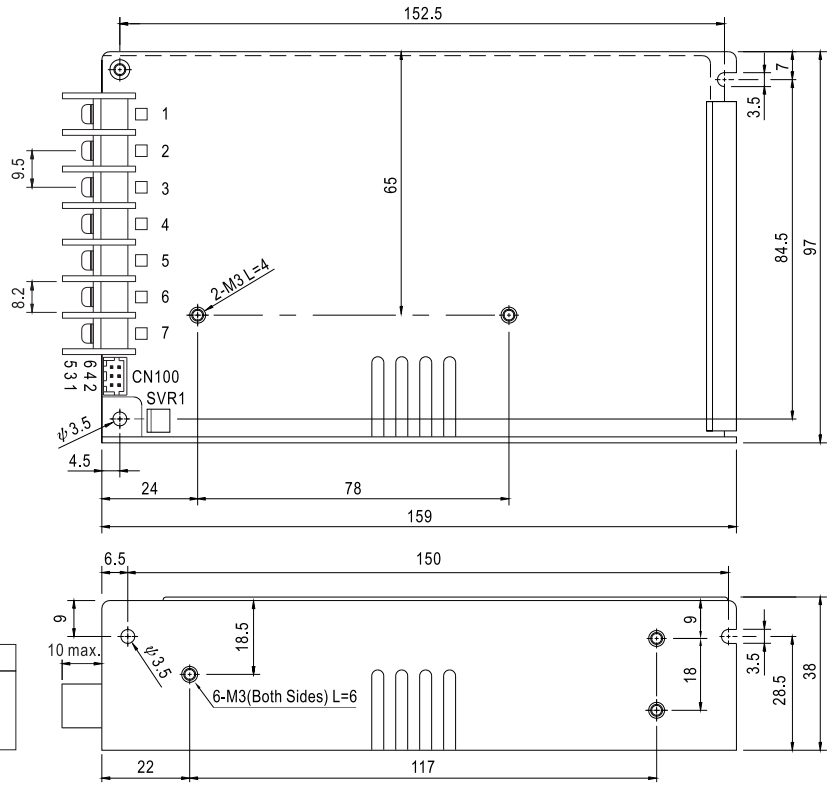
NOTE

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. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: HRP-150-3.3/-5/-7.5/-12/-15)
7. 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.901I Unit:mm



Terminal Pin No. Assignment :

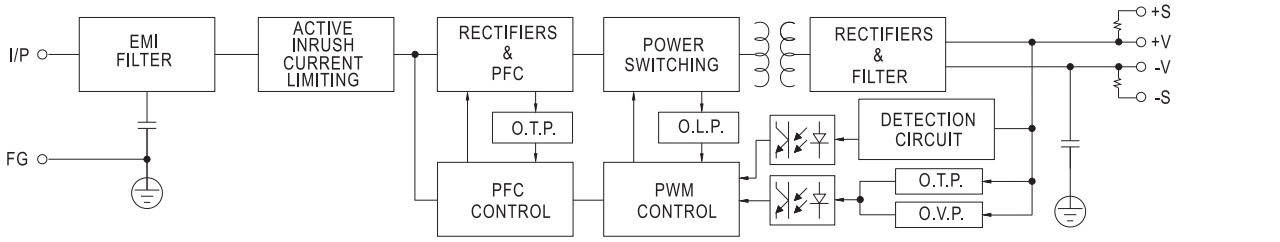
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ⏚		

Connector Pin No. Assignment (CN100) :
HRS DF11-6DP-2DSA or equivalent

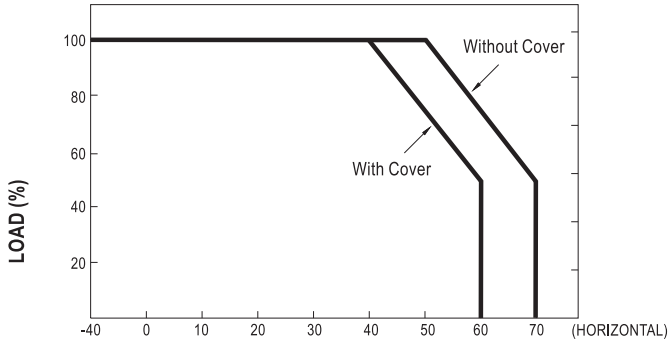
Pin No.	Assignment	Mating Housing	Terminal
1	-S	HRS DF11-6DS or equivalent	HRS DF11-**SC or equivalent
2	+S		
3~6	NC		

■ Block Diagram

PWM fosc :100KHz(3.3~7.5V)
70KHz(12~48V)

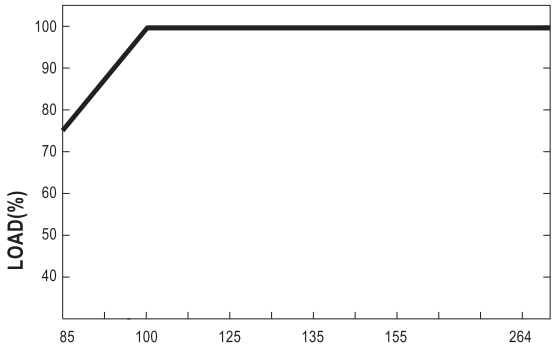


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Output Derating VS Input Voltage



INPUT VOLTAGE (V) 60Hz

SP Series
SSP12-5 12V5Ah

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

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical installation

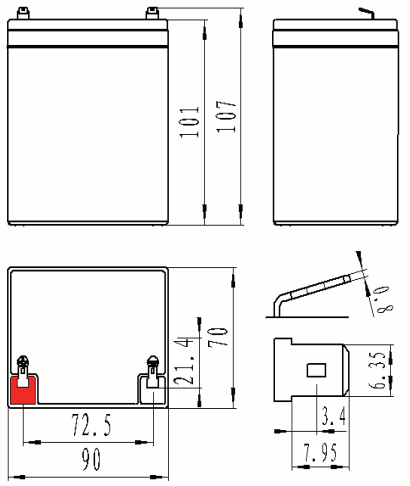
Applications

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

Standards

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

Drawing



Specifications

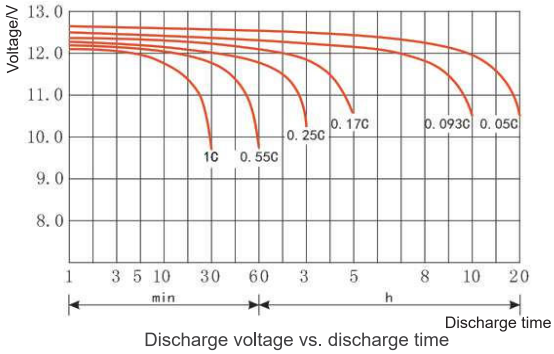
Battery Model	SSP12-5			
Design Life (years, 25℃)	5			
Capacity (Ah, 25℃)	20HR (0.25A, 1.75V)	10HR (0.485A, 1.75V)	5HR (0.855A, 1.75V)	1HR(3.43A, 1.70V)
	5	4.85	4.27	3.43
Dimensions (mm)	Length	Width	Height	Total Height
	90	70	101	107
Approx. Weight (kg)	1.62			
Reference Internal Resistance (mΩ)	22±15%(full charged @ 25℃,testing device:HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	75			
Self-Discharge (25℃)	⩽2% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.45 (-4mV/℃/cell), max charge current: 1.5A		2.27 (-3.5mV/℃/cell)	
Short Circuit Current (A)	150(For reference only)			

Discharge Data

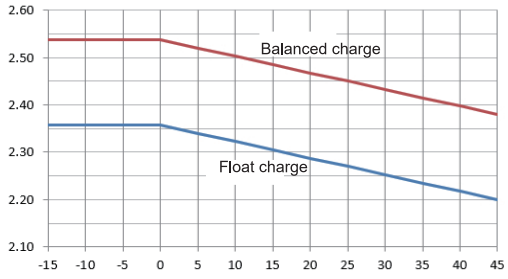
Constant Current Discharge Data (25℃, A)												
End Voltage (V/cell)	min						h					
	10	15	20	30	45	60	1.5	2	3	5	10	20
1.60	13.2	10.2	7.20	5.87	3.98	3.47	2.58	1.81	1.28	0.870	0.500	0.280
1.65	12.7	9.83	7.08	5.78	3.96	3.45	2.57	1.80	1.28	0.865	0.495	0.270
1.70	12.3	9.60	7.02	5.73	3.95	3.43	2.55	1.78	1.27	0.860	0.490	0.260
1.75	11.5	9.10	6.82	5.60	3.90	3.38	2.53	1.77	1.27	0.855	0.485	0.250
1.80	10.7	8.60	6.62	5.47	3.83	3.28	2.48	1.74	1.26	0.850	0.474	0.245

Constant Power Discharge Data (25 ℃, W/cell)												
End Voltage (V/cell)	min						h					
	10	15	20	30	45	60	1.5	2	3	5	10	20
1.60	23.4	19.0	13.9	11.7	7.68	6.94	4.90	3.60	2.56	2.05	0.985	0.550
1.65	23.0	18.7	13.8	11.5	7.63	6.92	4.88	3.58	2.55	2.04	0.975	0.530
1.70	22.7	18.3	13.4	11.4	7.57	6.90	4.86	3.56	2.54	2.03	0.965	0.520
1.75	21.7	17.4	13.0	11.2	7.50	6.78	4.84	3.53	2.52	2.02	0.954	0.500
1.80	20.3	16.4	12.6	10.8	7.42	6.67	4.80	3.48	2.50	2.00	0.938	0.485

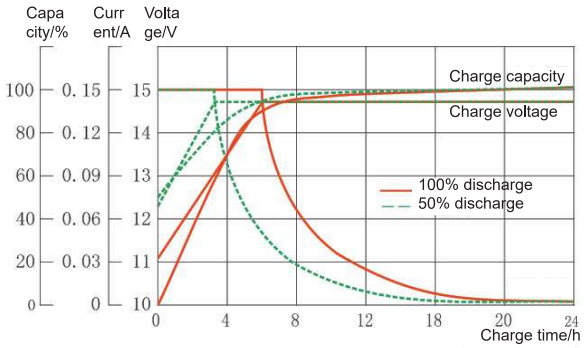
Performance Curve

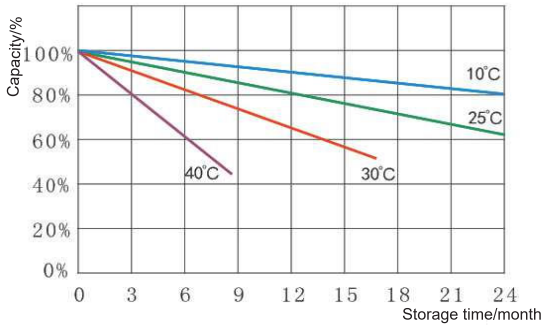


Discharge voltage vs. discharge time



Charge voltage vs. temperature





Storage time VS.remaining capacity

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

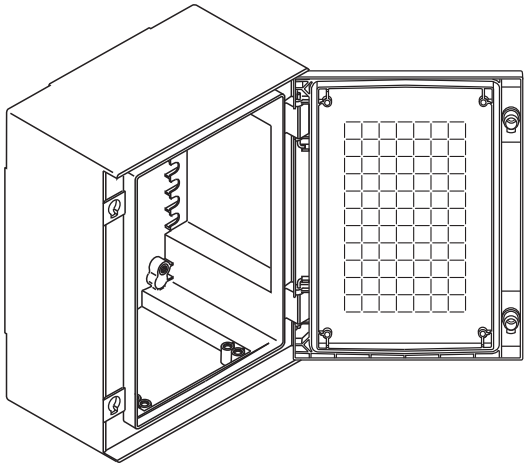
Sacred Sun Hong Kong Co., Limited
Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong
Email: admin.hk@sacredsun.hk

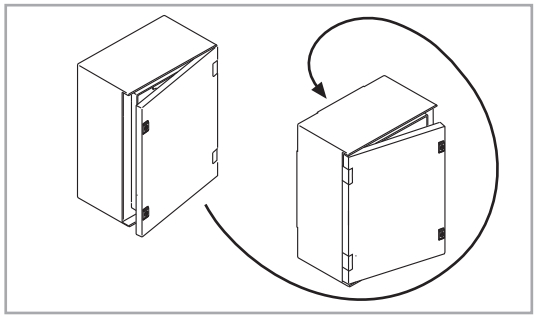
Sacred Sun Asia Pacific Pte Ltd.
Add: 1 Ubi View, #04-12, Focus One, Singapore 408555
Email: admin.sg@sacredsun.sg

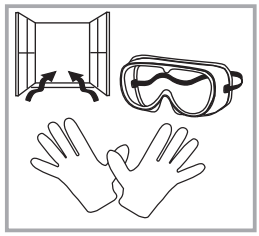
Sacred Sun Europe SARL
Add: ZAE Fontaine, 33210 Fargues, France
Email: admin.eu@sacredsun.eu

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

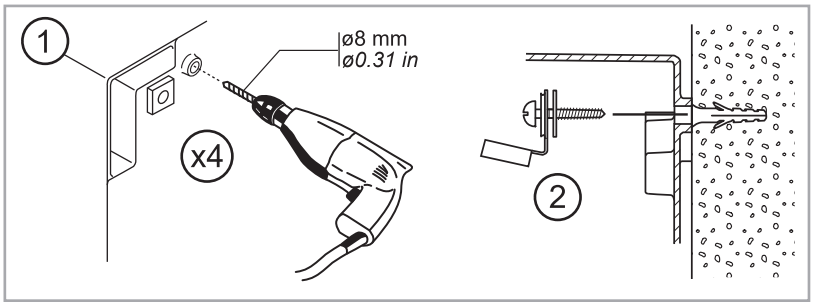
ISO9001 ISO14001 ISO18001 SA8000

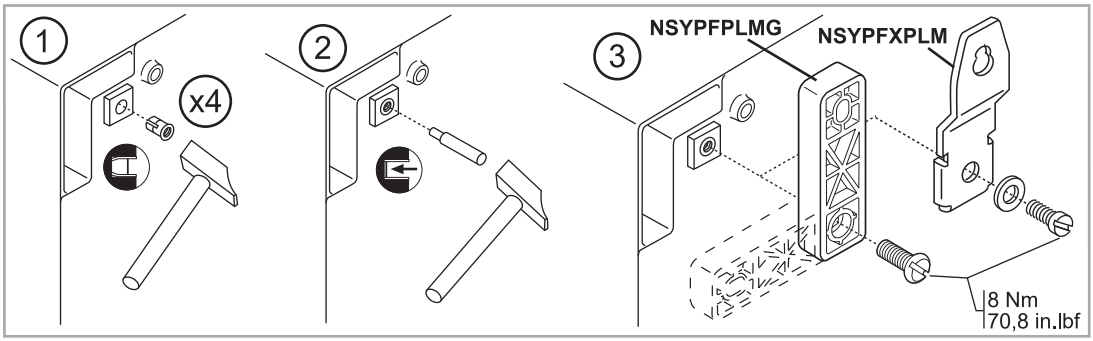


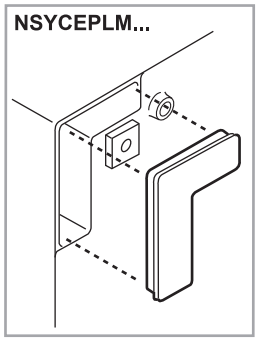


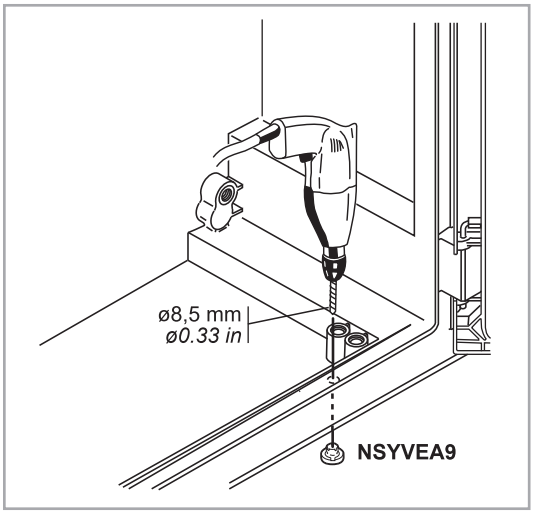


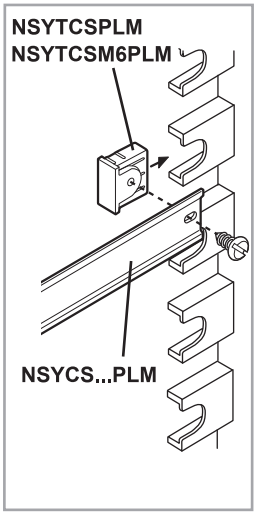
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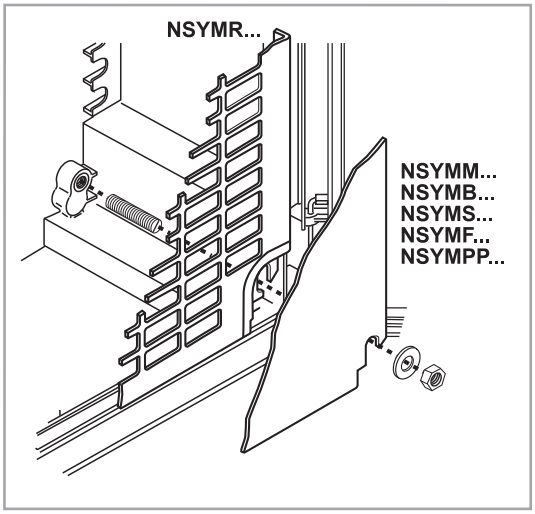


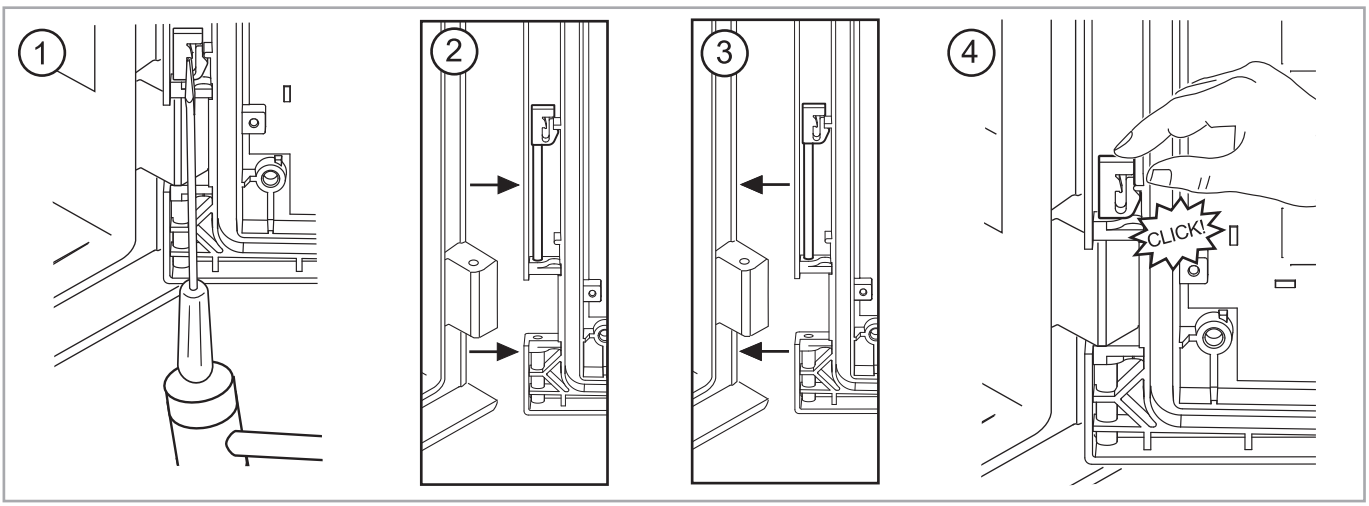












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