

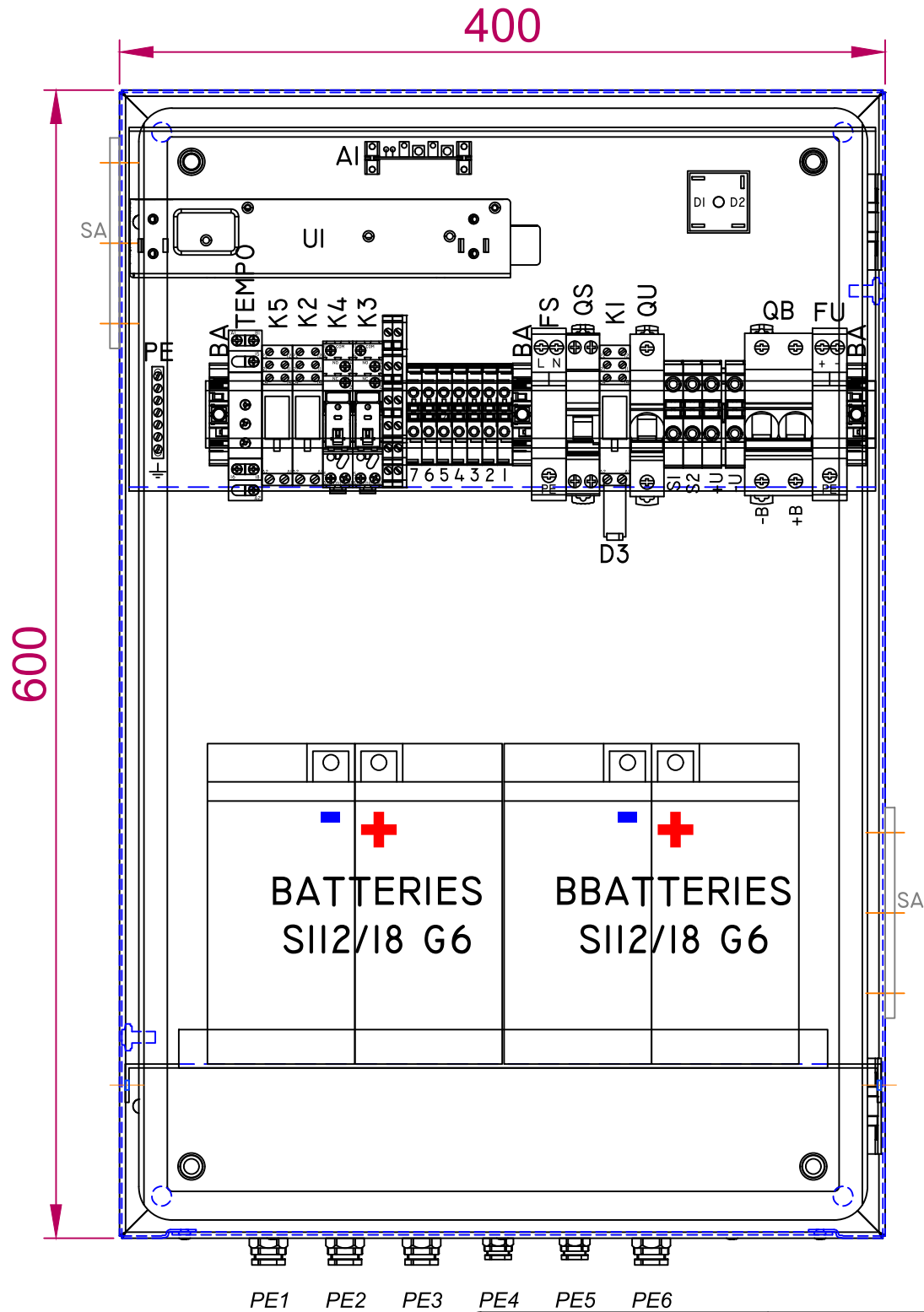


COFFRET « ALIMENTATION »

48Vdc 300W

113956-W2-TEMPO

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



COFFRET "ALIMENTATION" 48V 300W	HAUTEUR: 600MM LARGEUR: 400MM PROFONDEUR: 230MM POIDS: 37.3Kg
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	Ed.1:	Ed.2:	Ed.3:	Ed.4:	Ed.5:	E.S:	ECHELLE / SCALE:		1:4 EN A4	
MISE A JOUR: UPDATE:	11.09.23					TOLERANCE: ISO 2768-M TOLERANCE:		FORMAT: A4-V SIZE:		 
DESSINE PAR: DRAW BY:	S.SANTOS					FOLIO	PE1			
VERIFIE PAR: APPROVED BY:	T.LOISELLE					1/1				
COFFRET ALIMENTATION 48Vdc 300W						113956 - W2				



113956 - W2

[illegible]



■ 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>


SPECIFICATION

AS/NZS 62368-1 UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

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°C 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°C/1000m with fanless models and of 5°C/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

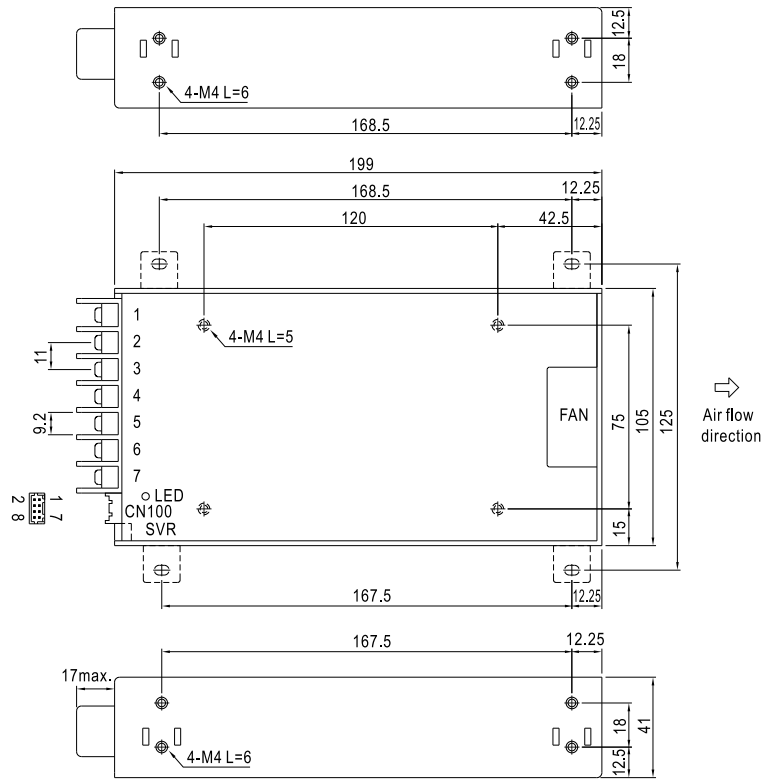
Case No.980A Unit:mm

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 $\perp$		

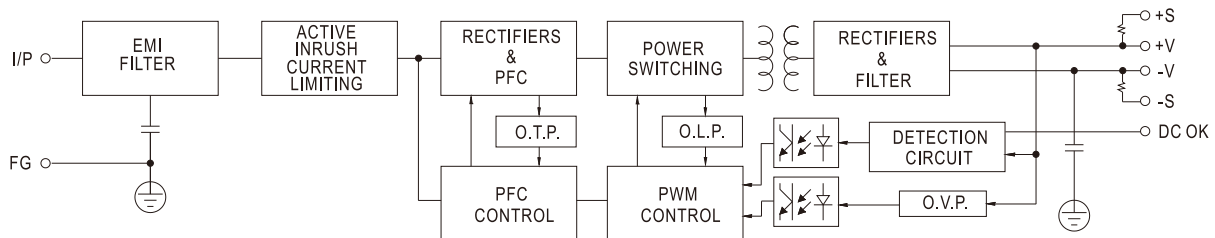
Connector Pin No. Assignment (CN100):
HRS DF11-08DP-2DS or equivalent

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		

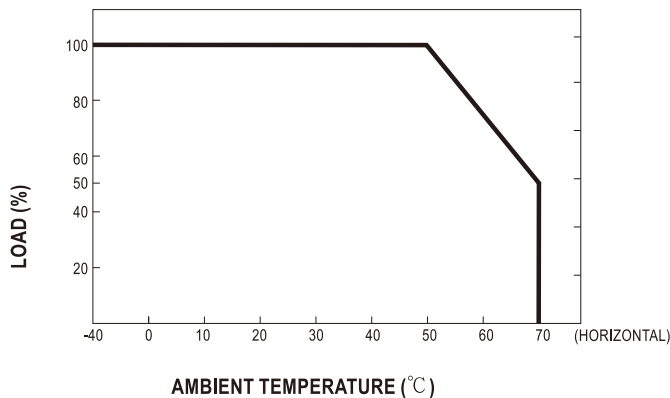


Block Diagram

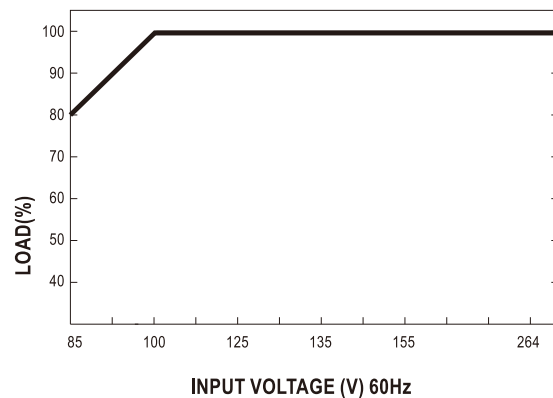
PWM fosc: 70KHz



Derating Curve



Output Derating VS Input Voltage

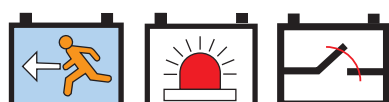


Industrial Batteries / Network Power

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
C₂₀



Block battery



Grid plate



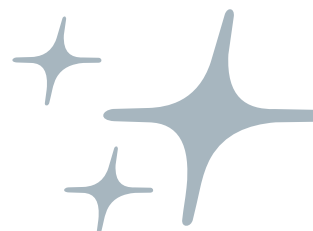
Recyclable



Valve regulated
lead-acid
batteries



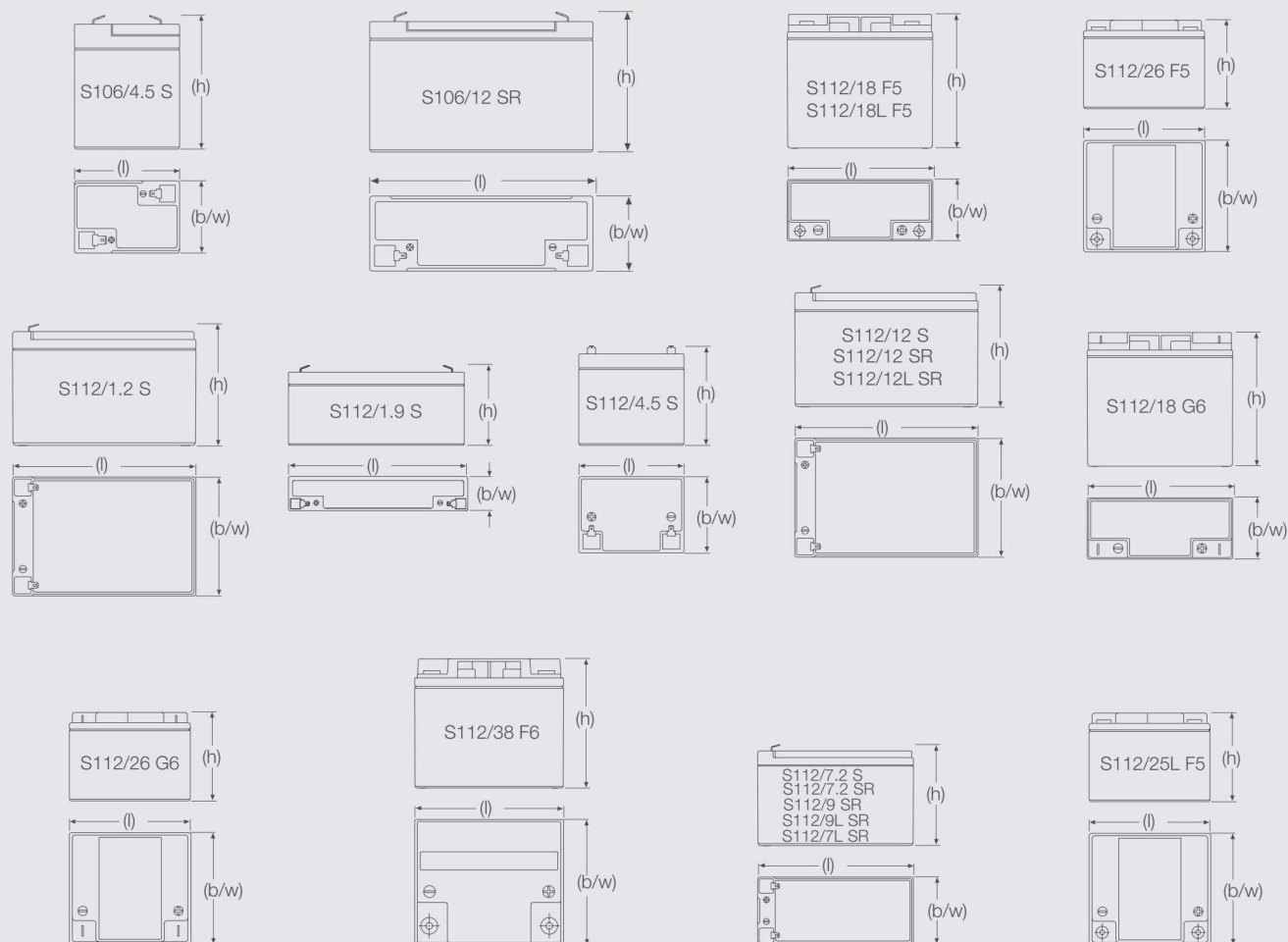
Maintenance-
free (no
topping up)



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



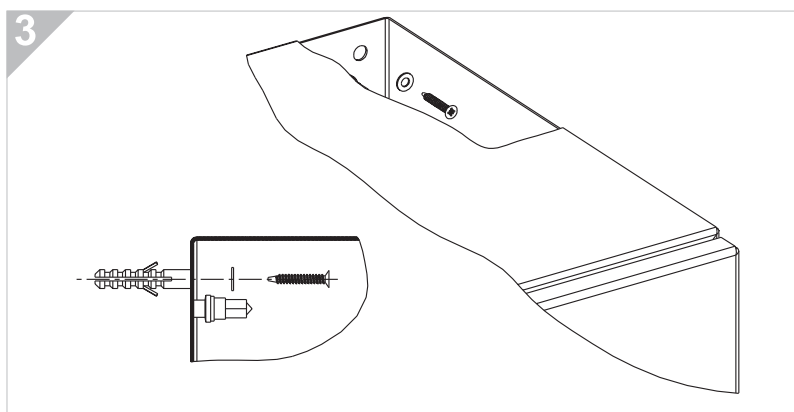
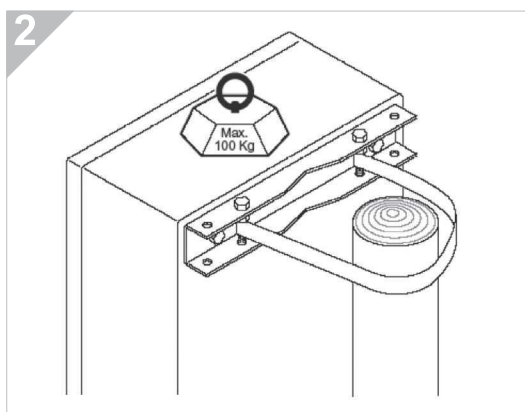
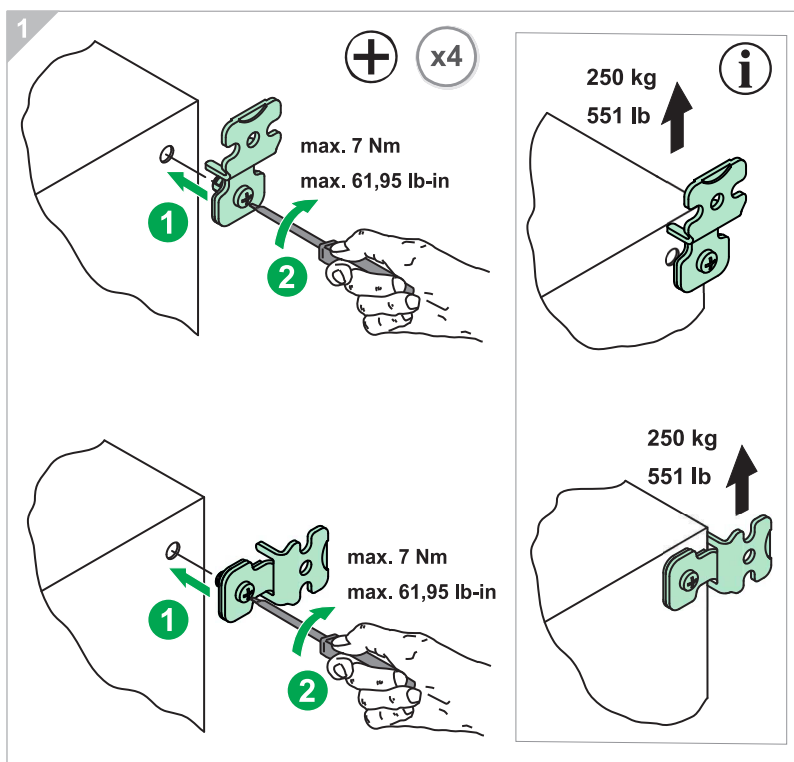
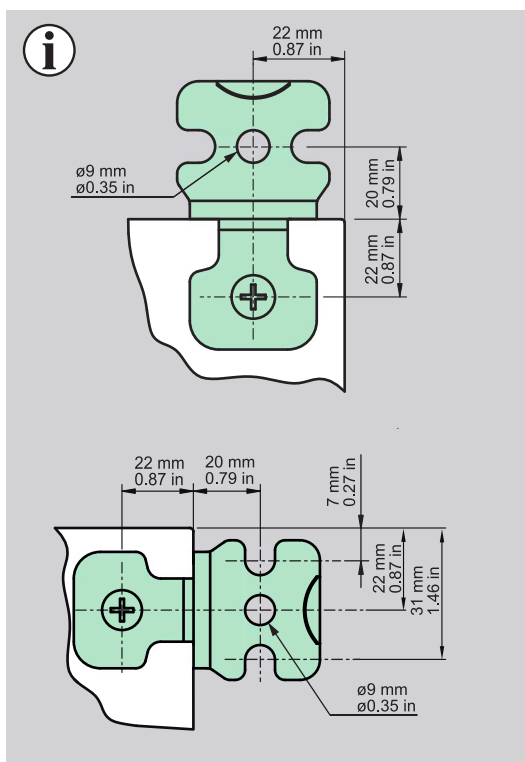
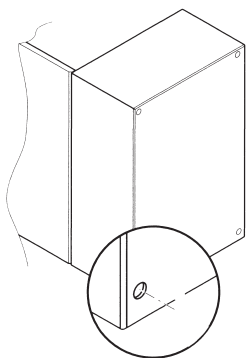


Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development 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.

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

D

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 - 1/4 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 respecter les exigences de la section 19 (Openings) de la Norme UL508A et la section 9.6 (Equipment openings) de la norme UL50E