

Technical Datasheet BAT103

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General

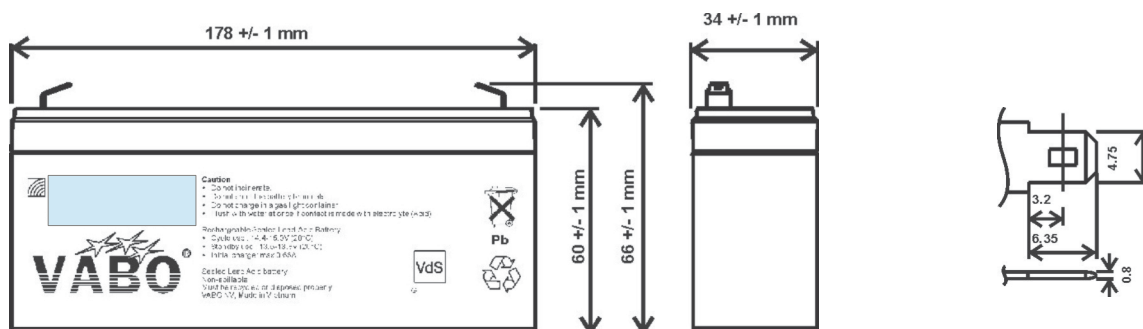
Order ref.	BAT10
Battery system	3 Rechargeable Sealed Lead Acid
Voltage	12 V
Capacity	2,3 Ah
VdS Certificate	G119042

Contents in this datasheet are subject to change for improvement without prior notice to users.

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Dimensions & Terminal



Dimensions	
• Length	178 +/- 1mm
• Width	34,5 +/- 1 mm
• Total Heightterminalincluded	66 +/- 1 mm
Terminal	Faston 187: 4,75 x 0,8mm

Specifications

Weight	0,870 kg
Internal resistance	Approx. 60 mΩ
Capacity:	
• 20hr rate(0,115A to 10,50V)	2,30 Ah
• 10hr rate(0,219A to 10,50V)	2,185 Ah
• 5 hr rate(0,391A to 10,20V)	1,955 Ah
• 1C (2,3A to 9,60V)	1,150 Ah
• 3C (6,9A to 9,60V)	0,805 Ah
Maximum discharge current for 5 seconds	34,5 A
Charge retention at 20°C	
• 1 month	92%
• 3 months	90%
• 6 months	80%

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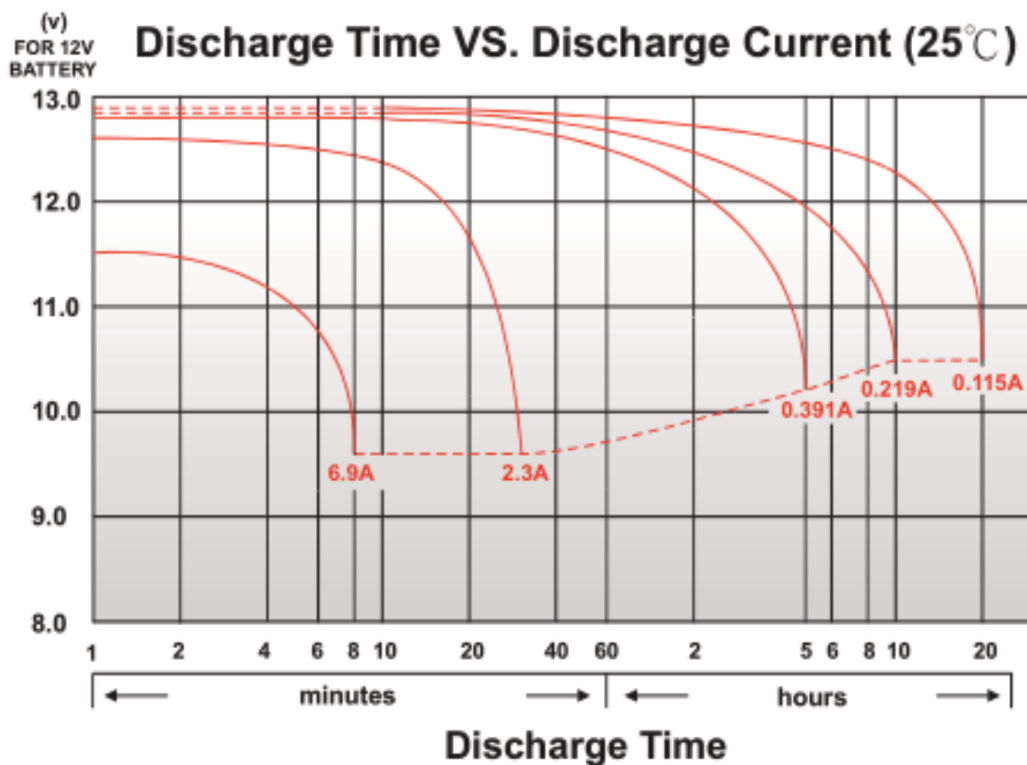
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Temperature range • charge • discharge • storage	-15°C to 40°C -15°C to 50°C -15°C to 40°C
Charging Methods at 20°C • Cycle use ◦ Charging voltage ◦ Maximum charging current • Standby use ◦ float charging voltage	14,4 – 15,0 Volt 0,69A 13,50-13,80 Volt
Life expectancy • Cycle use ◦ 100% depth of discharge ◦ 80% depth of discharge ◦ 50% depth of discharge • Standby use	200 cycles 225 cycles 500 cycles 3-5 years
Case material	ABS

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Discharge time & Discharge current (20°C)



PERFORMANCE DATA

Tolerance range:

Time	Tolerance
Time < 6 minutes	+/- 15%
Time 6 to 10 minutes	+/- 12%
Time 10 to 60 minutes	+/- 8%
Time > 60 minutes	+/- 5%

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Discharge Rates in Watts to Various End Voltages at 25°C

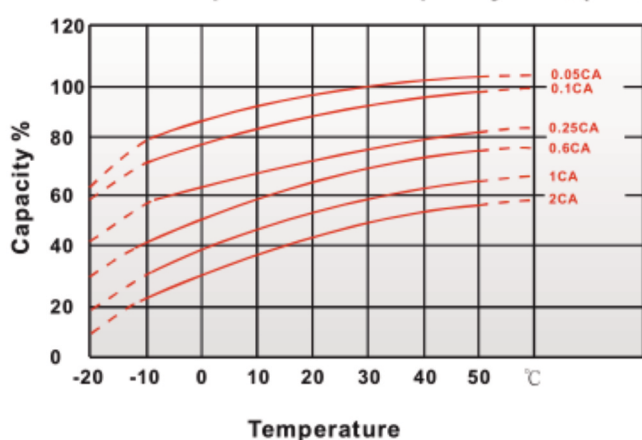
End Voltage Time		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10	min	7,82	9,38	10,10	10,60	10,80	11,10	11,40
15	min	6,87	7,90	8,28	8,53	8,63	8,75	8,90
30	min	3,95	4,25	4,43	4,58	4,63	4,70	4,78
60	min	2,27	2,45	2,60	2,72	2,75	2,80	2,85
120	min	1,36	1,50	1,56	1,62	1,64	1,67	1,70
180	min	1,08	1,21	1,24	1,27	1,28	1,29	1,30
240	min	0,863	0,960	0,988	1,01	1,02	1,03	1,04
300	min	0,702	0,777	0,808	0,837	0,848	0,858	0,869
600	min	0,415	0,453	0,468	0,480	0,483	0,488	0,493
1200	min	0,230	0,242	0,248	0,253	0,255	0,257	0,258

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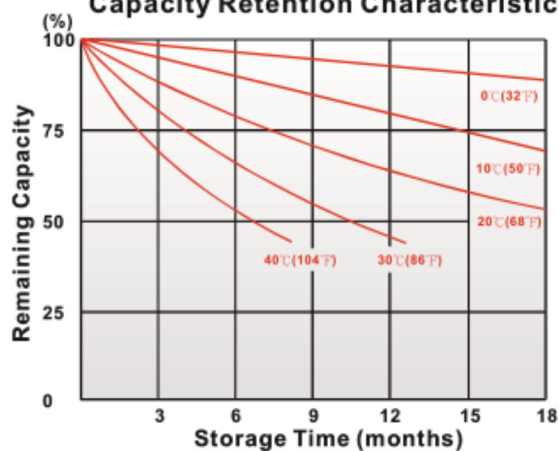
Discharge Rates in Amperes to Various End Voltages at 25°C

End Voltage Time	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
10 min	4,76	5,45	5,68	5,87	5,94	6,03	6,15
15 min	3,89	4,15	4,27	4,38	4,42	4,47	4,53
30 min	2,02	2,17	2,24	2,3	2,32	2,35	2,39
60 min	1,23	1,34	1,39	1,42	1,43	1,45	1,47
120 min	0,668	0,731	0,765	0,796	0,809	0,826	0,849
180 min	0,508	0,562	0,587	0,609	0,618	0,628	0,643
240 min	0,411	0,449	0,472	0,491	0,497	0,505	0,513
300 min	0,364	0,383	0,396	0,405	0,409	0,414	0,419
600 min	0,217	0,226	0,232	0,237	0,238	0,240	0,242
1200 min	0,114	0,118	0,121	0,123	0,124	0,125	0,126

Effect of Temperature on Capacity 25°C (77°F)



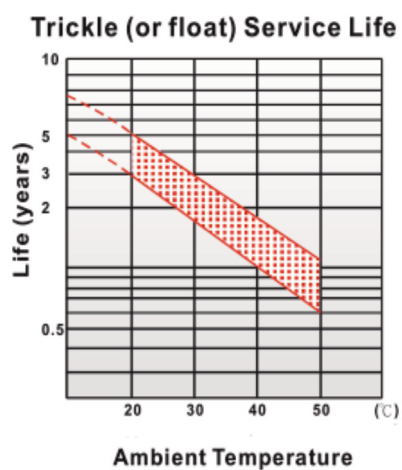
Capacity Retention Characteristic



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Certificate

Zertifikat

Anerkennung

von Bauteilen und Systemen

Approval

of Components and Systems



Inhaber der Anerkennung
Holder of the Approval

VABO NV

Boterbosstraat 20

BE-3550 HEUSDEN-ZOLDER

Anerkennungs-Nr. Approval No.	Anzahl der Seiten No. of pages	gültig vom (TT.MM.JJJJ) valid from (dd.mm.yyyy)	gültig bis (TT.MM.JJJJ) valid until (dd.mm.yyyy)
G 119042	4	01.10.2019	31.08.2023

Gegenstand der Anerkennung
Subject of the Approval

Wartungsfreie Blei-Batterie
PM2.3-12

Verwendung
Use

in Gefahrenmeldeanlagen

Anerkennungsgrundlagen
Basis of the Approval

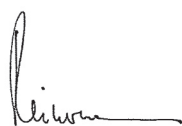
VdS 2344:2014-07

VdS 2110:2017-09

VdS 2102:2001-07

Köln, den 30.09.2019




Dr. Reinermann

Geschäftsführer
Managing Director


I. V. Grundmann

Leiter der Zertifizierungsstelle
Head of Certification Body

Die Anerkennung

umfasst nur das angegebene Bauteil/System in der zur Prüfung eingereichten Ausführung

- mit den Bestandteilen nach Anlage 1,
- dokumentiert in den technischen Unterlagen nach Anlage 2,
- zur Verwendung in den angegebenen Einrichtungen der Brandschutz- und Sicherungstechnik.

Bei der Anwendung des Gegenstandes der Anerkennung sind die Hinweise nach Anlage 3 zu beachten.

Das Zertifikat darf nur unverändert und mit sämtlichen Anlagen vervielfältigt werden. Alle Änderungen der Voraussetzungen für die Anerkennung sind der VdS-Zertifizierungsstelle – mitsamt den erforderlichen Unterlagen – unverzüglich zu übermitteln.

This Approval

is valid only for the specified component/system as submitted for testing

- together with the parts listed in enclosure 1
- documented in the technical documents according to enclosure 2
- for the use in the specified fire protection and security installations.

When using the subject of the approval the notes of enclosure 3 shall be observed.

This certificate may only be reproduced in its present form without any modifications including all enclosures. All changes of the underlying conditions of this approval shall be reported at once to the VdS certification body including the required documentation.

VdS Schadenverhütung GmbH
Zertifizierungsstelle
Amsterdamer Str. 174
D-50735 Köln

Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e.V. (IGDV), durch die DAKKS akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherungstechnik

A company of the German Insurance Association (IGDV) accredited by DAKKS as certification body for fire protection and security products

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