

Maintenance Free Sealed Lead Acid Batteries

- General Use Series
- High Rate UPS Series
- Long Life Standby Series
- Cycle Series



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FEATURES

Lead-acid batteries are in relation to their tension and capacity compact, light, perfectly maintenance free and cheap. They are suitable to be used standby or cyclical i.e. in security sector (alarm), electronical devices, telephone exchange and UPS.

These batteries are standard available from 2V until 12V
Other types on demand.

VABO - AGM VRLA batteries indicate Valve Regulated Lead Acid Batteries with the following features:

- Maintenance-free, no water adding required
- Sealed valve-regulated, spill proof and leak proof
- Using unilateralism exhaust (safe vent valve) design on the battery cover

When the battery internal pressure have been up to the specifically value, the safe vent valve will open automatically, and will close after the pressure has been discharged, which can prevent the air to enter into battery



All data is subject to change without prior notice.
Performance information is typical.

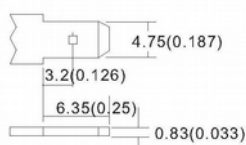
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BATTERY TERMINALS



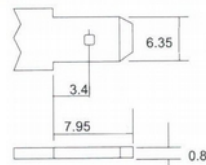
T1 Terminal

FASTON TYPE (Copper) quick disconnect tabs;
Silver coating for better conductivity



T2 Terminal

FASTON TYPE (Copper) quick disconnect tabs;
Silver coating for better conductivity



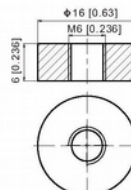
T3 Terminal

Brass Coated With Tin
Torque: 3.9 – 5.4 N*m



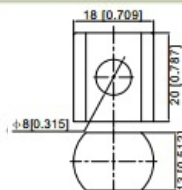
T6 Terminal

Brass Coated With Tin; Threaded Insert 6mm STUD
Torque: 3.9 – 5.4 N*m



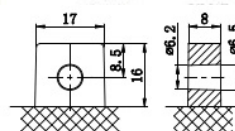
T9 Terminal

Lead
Torque: 11-14,7 N*m



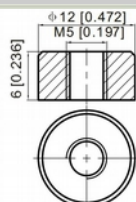
T10 Terminal

Lead
Torque: 3.9-5.4 N*m



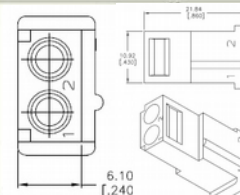
T12 Terminal

Brass Coated With Tin; Threaded Insert 5mm STUD
Torque: 2.0-3.0 N*m



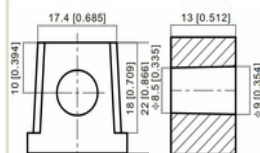
Connector

Toy Battery Connector
H-Connector



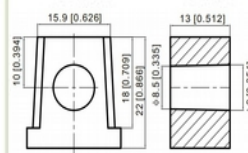
T14-1 Positive

Lead
Torque: 11-14,7 N*m



T14-2 Negative

Lead
Torque: 11-14,7 N*m





GENERAL USE

AGM VRLA

- Using oxygen recombination technology:
maintenance-free
- PbCaSn alloy for plate grids:
less gassing, less self-discharging
- High quality AGM separator:
extend cycle life and prevent micro short circuit
- ABS material:
increase the strength of battery container.
- High purity raw material:
ensure low self discharge rate
- Silver-coated copper terminals



Typical Applications

1. All purpose
2. Uninterruptable Power Supply (UPS)
3. Electric Power System (EPS)
4. Emergency light
5. Emergency backup power supply
6. Auto control system
7. Aircraft signal
8. Alarm and security system
9. Electronic apparatus and equipment
10. DC power supply
11. Communication power supply

6 VOLT PM

PM 1,2-6



PM 4,0-6



PM 7,0-6



PM 10-6



12 VOLT PM

Pb 0,8-12



PM 1,2-12



PM 2,2-12



PM 3,0-12



Pb 4,0-12



PM 5,0-12



PM 7,0-12



PM 12-12



PM 18-12



PM 26-12



PM 45-12



PM 65-12



GENERAL USE



VABO PM SERIES 6 VOLT

Type (Art Ref)	Nominal Voltage (V)	Capacity 20Hr-1,8V (AH)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)	Terminal	Box	VDS
PM 1,2-6 (59201)	6	1,2	97	24	51,5	57,5	0,31	T1	20	
PM 4,0-6 (59202)	6	4,0	70	47	100	106	0,81	T1	20	
PM 7,0-6 (59004)	6	7,0	151	34	94	100	1,15	T1	10	
PM 10-6 (59256)	6	10,0	151	51	94	100	1,95	T1	10	

Specialised

PB 2,8-6 (62059)	6	2,8	66	33	97	104	0,57	T1	20	
PB 3,3-6 (12293)	6	3,3	134	34	59	65	0,69	T1	20	
PB 3,5-6 (11925)	6	3,5	194	25	56	60	0,72	T1	10	
PB 3,8-6 (10558)	6	3,8	66	33	118	126	0,74	T1	20	

VABO PM SERIES 12 VOLT

Type (Art Ref)	Nominal Voltage (V)	Capacity 20Hr-1,8V (AH)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)	Terminal	Box	VDS
PM 1,2-12 (59207)	12	1,2	97	43	52	58	0,57	T1	20	YES
PM 2,2-12 (59224)	12	2,2	178	34	60	66	0,80	T1	10	YES
PM 3,0-12 (59209)	12	3,0	133	66	60,5	66,5	1,35	T1	10	
PM 5,0-12 (59225)	12	5,0	90	70	101	107	1,68	T1	10	
PM 7,0-12 (59211)	12	7,0	151	65	93,5	99	2,18	T1	5	YES
PM 12-12 (59217)	12	12,0	151	98	95	101	3,60	T2	4	YES
PM 18-12 (59220)	12	18,0	181,5	77	167,5	167,5	5,41	T3	2	YES
PM 26-12 (59221)	12	26,0	166	175	125	125	8,00	T3	2	YES
PM 45-12 (59222)	12	45,0	197	165	170	170	14,2	T6	1	YES
PM 65-12 (59216)	12	65,0	348	167	178	178	19,2	T6	1	YES
Specialised										
PM 0,8-12 (11752)	12	0,8	96	25	62	62	0,35	H (plug)	20	
PB 4,0-12 (59009)	12	4,0	195	47	70	76,0	1,70	T1	10	

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Performance information is typical.

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HIGH RATE UPS

This series is especially designed for high-rate applications as UPS-systems, Emergency power supply, Power tools, even starting systems.

The special thin plate technology, silver and brass components, high quality AGM separators improve the high current discharging properties and gives you a longer lifetime, 8 years.

Thanks to this high rate, a smaller battery can be sufficient for your application.

So, do you need a lot of power during a relative short time? Then this is the battery type you need!



12 VOLT UPS

PB UPS 5,0-12



PB UPS 6-12



PB UPS 8,5-12



PB UPS 26-12



HIGH RATE UPS



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General Features AGM VRLA

- Silver-coated copper terminals (T1, T2 terminal),
- Brass insert terminals and lead terminals improve the electric conductivity
- Thin plate technology, special grid design, unique paste formula and plate curing process
- Optimize high rate performance
- High quality AGM separators with less electrical resistance improve high current discharging properties
- ABS material: increase the strength of battery container

Typical Applications

- | | | |
|----------------------|-----------------------------|---------------------------|
| 1. UPS (High rate) | 2. High power backup supply | 3. Emergency power supply |
| 4. Starting system | 5. Power tools | 6. Emergency lighting |
| 7. Electric starting | | |

VABO PB UPS SERIES 12 VOLT

Type (Art Ref)	Nom Volt (V)	15 min W/cell 1,6 V/cell	15 min Watt rate 9,6V/ battery	Capacity Ah		Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Plug	Box
PB UPS 5,0-12 (59232) Tab 6,3mm	12	20,40	122,40	5		90	69	101	107	T2	10
PB UPS 6-12 (12286) MP1224H Tab +6,3/-4,8	12	24,00	144,00	6		151	51	93,5	99,5	T2	10
PB UPS 8,5-12 (59233) Tab 6,3mm	12	32,20	193,20	8,5		151	64	93,5	99,5	T2	5
PB UPS 26-12 (59257) Tab M5	12	99,80	598,80	26		166	175	125	125	T12	2

* Other models on request

Terminal : T1 = 4,8mm (Faston 187) T2 = 6,3mm (Faston 250) T3 / T6 = Bolt and Nut 6mm

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CYCLE TYPES

Fully sealed VRLA battery to provide reliable performance.

Typical Applications

1. Wheelchairs
2. Caddies
3. Electric Tools
4. Emergency Lighting
5. Measuring instruments

* other models on request

CYCLE SERIES 12 VOLT

Type (Art Ref)	Nom Volt. (V)	Capacity Ah (K20)	Length (mm)	Width (mm)	Height Incl tab (mm)	Connect or-Type	Box
MP2,4-12C	12	2,4	178	34	65	F1	10
MP3-12C	12	3	134	67	65,5	F2	10
MP5-12C	12	5	90	70	108	F2	10
MP8-12C	12	8	151	65	102	F2	5
MP10-12C	12	10	151	65	118,5	F2	4
MP12-12C	12	12	151	99	100	F2	4
MP22-12C	12	22	181	76	167	F8	2
MP26-12C	12	26	166	175	125	F3	2
MP30-12C	12	30	166	125,5	176	F8	2
MP36-12C	12	34	197	130	180	F4	2
MP50-12C	12	50	198	166	171	F8	1
MP62-12C	12	62	226	135	207	F8	1
MP75-12C	12	75	260	170	210	F8	1
MP100-12C	12	100	338	170	220	F8	1

* F2 : Tab 6,3mm

* F3 : M5

* F4 : M6

* F8 : M6 Insert



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LONG LIFE STANDBY



The use of thicker plates, lower acid density and more electrolyte offers a lifetime upto **10 years**.
These batteries are used in: UPS-systems, emergency lighting, telecom, railway,...

General Features

AGM VRLA

- Special grid alloy and high purity raw material ensure less gassing, less self-discharging
- Grid refining technology and the thicker plates are used to extend the battery standby life
- Lower acid density, excess of electrolyte and larger distance between plates to keep battery at low temperature
- Using oxygen recombination technology: maintenance-free
- ABS material: increase the strength of battery container.
- Design lifetime of 10 years

Typical Applications

1. UPS and EPS
2. Emergency light
3. Railway signal and aircraft signal system
4. Marine and power stations
5. Alarm and security system
6. Electronic apparatus and equipment
7. Communication power supply
8. DC power supply

* other models on request

LONG LIFE STANDBY SERIES 12 VOLT UPTO 10 YEARS

Type (Art Ref)	Nom Volt. (V)	20HR 1,8 V/Cell	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)	Plug	Box
PB LONGLIFE 12V 7,0AH 10Y - LSX	12	7	151	65	94	99	2,30	T1	5
PB LONGLIFE 12V 12AH 10Y - LSX	12	12	151	98	95	101	3,76	T2	4
PB LONGLIFE 12V 17AH 10Y - LSX	12	17	181	77	168	168	5,50	T3	3
PB LONGLIFE 12V 24AH 10Y - LSX	12	24	166	175	125	125	8,10	T3/ T10/ T12	1
PB LONGLIFE 12V 28AH 10 Y- LSX	12	29,7	165	125	175	175	9,30	T3/ T10/ T12	1
PB LONGLIFE 12V 100 AH 10Y - MP	12	100	338	170	210	212	32,5	T9 T6	1
PB LONGLIFE 12V 150 AH 10Y - MP	12	150	483	170	238	240	45,5	M8	1



* T1 : 4,8mm T2 : 6,3mm T3 : M5 Bolt and Nut

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FRONT TERMINAL



Frontterminal FT and LFT batteries provides batteries for UPS power cabinets requiring front terminals for easy maintenance.

General Features

AGM VRLA

- Absorbent Glass Mat Technology (AGM) with efficient gas recombination up to 99%
- Maintenance free (no watering)/ sealed battery (SLA)
- Valve Regulated Lead Acid (VRLA)
- Low self discharge, approx 3% per month
- Design lifetime of 10 years

Typical Applications

- burglar-systems
- UPS-systems
- fire-detecting-systems
- telecommunication-systems
- IT systems and more

* other models on request



FRONT TERMINAL BATTERIES

Type (Art Ref)	Nom Volt. (V)	20HR 1,8 V/Cell	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)	Plug	Box
M 12V 35FT	12	35	280	107	189	189	14,40	M6	1
M 12V 50FT	12	50	280	107	231	231	18,00	M6	1
Q 12 LFT 55	12	57	277	106	222	222	18,00	F11 M6	1
Q 12 LFT 105	12	108	508	111	236	236	32,50	F12 M8	1
Q 12 LFT 150	12	150	551	110	288	288	45,00	F12 M8	1

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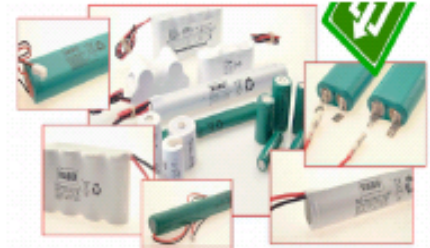
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Our Catalogs

Maintenance Free Sealed Lead Acid



Emergency Lighting Nict – Nihh High Temperature



Batteries and Chargers



Medical Batteries



Batteries for Hospital Beds and Patient Lifters



Barcode Scanner Two-Way Radio Batteries



Lithium Thionyl 3,6V



Maglite Flashlights



Streamlight Flashlights



Peli Safety Flashlights and Certified Products



Petzl Headlights and Atex Certified Products



VDS – The authority on Safety and Security

VdS Schadenverhütung* is the independent, international, accredited and notified testing and certification institution for fire prevention and safety technology as well as for physical and electronic protection against intrusion.

Looking back to a century of experience, VdS inspects and certifies products as well as services for the safety and security industry. All procedures follow standards and rules established by VdS in cooperation with the insurance industry and international organizations.

The European Perspective VdS Schadenverhütung is accredited according to the EN 45000 series of European standards and is a member of the European Fire and Security Group (EFSG). VdS experts are represented in all relevant German and international committees. The VdS mark of approval stands for quality and reliability wherever safety and security matters. VdS helps to steer clear of damage and loss.

VdS = Vertrauen durch Sicherheit

= Confidence through safety and security

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Other models are available on request



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Zertifikat	Certificate	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		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 Sicherheitstechnik. 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 – mittels der 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.		
Anerkennungs-Nr. Approval No. G 111062		Anzahl der Seiten No. of pages 4	gültig vom valid from 19.05.2015	gültig bis valid until 18.05.2019
Gegenstand der Anerkennung Subject of the Approval Wartungsfreie Blei-Batterie 59207 PM1.2-12				
Verwendung Use in Gefahrenmeldeanlagen				
Anerkennungsgrundlagen Basis of the Approval VdS 2344:2012-07 VdS 2110:2011-01 VdS 2102:2001-07				
Köln, den 09.03.2015				
 Deutsche Akkreditierungsstelle D-20-13149-01-01		 Reinermann Geschäftsführer Managing Director		
		 i. V. Grundmann Leiter der Zertifizierungsstelle Head of Certification Body		
		<small>VdS Schadenverhütung GmbH Zertifizierungsstelle Amsterdamer Str. 174 D-50775 Köln Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e. V. (GDV), durch die DAKKS akkreditiert als Zertifizierungsstelle für Produkte in den Bereichen Brandschutz und Sicherheitstechnik. A company of the German Insurance Association (GDV) accredited by DAKKS as certification body for fire protection and security products</small>		

