

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 37 068 - 12 HH
Company VB Autobatterie GmbH & Co. KGaA
Am Leineufer 51
30419 Hannover, GERMANY

Product Description Lead Acid Accumulator

Type Varta Professional DC (Deep Cycle)

Environmental Category A

Technical Data / Voltage 12V

Range of Application

Battery Capacity	LFD 60	51Ah (5h)	60 Ah (20h)
	LFD 75	64Ah (5h)	75 Ah (20h)
	LFD 90	77Ah (5h)	90 Ah (20h)
	LFD 140	119Ah (5h)	140 Ah (20h)
	LFD 180	153Ah (5h)	180 Ah (20h)
	LFD 230	196Ah (5h)	230 Ah (20h)

Sealed, maintenance free flooded batteries
General power supply on board ships and marine facilities. Also suitable for high current discharging as for electrical starting of combustion engines.
12V blocks can be combined to battery sets with desired voltage and/or capacity

Manufacturer: Johnson Controls

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003
EN 50342-1:2006

Documents Test report : GL Test note 37231 dated 2011-09-22
Data sheet: 2011

Remarks Charging conditions of the manufacturer have to be considered

Valid until 2017-03-05

Page 1 of 1

Type Approval Symbol



File No. I.M.01

Hamburg, 2012-03-07

Germanischer Lloyd

Christoph Kutzner

Joachim Zipfel

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Certificate No. 44 216 - 07 HH

Company VB Autobatterie GmbH & Co. KGaA
Am Leineufer 51
30419 Hannover, GERMANY

Product Description Valve Regulated Lead Acid accumulators, AGM technology, Series from 60 to 105 Ah (C20), 12 Volt

Type VARTA Professional AGM: 60; 70; 80; 95; 105 Ah

Environmental Category A

Technical Data / Range of Application Sealed, maintenance-free VRLA-batteries (Valve Regulated Lead Acid), with grid plates and with Absorbent Glas Mats (AGM).
The 12 V block batteries can be combined to battery-sets with the desired voltage and/or capacity.

Application: General power supply on board of ships and marine facilities. Also suitable for high current discharging as for electrical starting of combustion engines.

For charging conditions manufacturer's instruction has to be considered.

Manufacturer: Johnson Controls

Test Standard Guidelines for the Performance of Type Approvals Part 2, Edition 2003

Documents Data sheet of VB Autobatterie
Test reports : Johnson Controls 29.11.2006; Tüv Nord 16.05.2006

Remarks None

Valid until 2017-03-06

Page 1 of 1

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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Certificate No. 37 069 - 12 HH
Company VB Autobatterie GmbH & Co. KGaA
Am Leineufer 51
30419 Hannover, GERMANY
Product Description Valve Regulated Lead Acid accumulators,
AGM technology
Type Varta Professional DC AGM

Environmental Category A

Technical Data / Voltage 12V
Range of Application

Battery Capacity	LAD 24	20Ah (5h)	24Ah (20h)
	LAD 60	49Ah (5h)	60Ah (20h)
	LAD 70	58Ah (5h)	70Ah (20h)
	LAD 85	70Ah (5h)	85Ah (20h)
	LAD 115	91Ah (5h)	115Ah (20h)
	LAD 150	123Ah (5h)	150Ah (20h)
	LAD 260	214Ah (5h)	260Ah (20h)

Sealed, maintenance free VRLA batteries (Valve regulated Lead Acid) , with grid plates and with Absorbent Glas Mats(AGM)
General power supply on board ships and marine facilities. Also suitable for high current discharging as for electrical starting of combustion engines.

12V blocks can be combined to battery sets with desired voltage and/or capacity

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003
EN 50342-1: 2006

Documents Test report : GL Test note 37231 dated 2011-09-22
Data sheet: 2011

Remarks Charging conditions of the manufacturer have to be considered

Valid until 2017-03-06

Page 1 of 1

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Certificate No. 37 070 - 12 HH
Company VB Autobatterie GmbH & Co. KGaA
Am Leineufer 51
30419 Hannover, GERMANY

Product Description Valve Regulated Lead Acid Accumulator
AGM Technology

Type OPTIMA

Environmental Category A

Technical Data / Voltage 12V

Range of Application

Battery Capacity (20h)	38Ah	YT2.7	55Ah	BT DC4.2
	48Ah	YT3.7	66Ah	BT DC5.0
	55Ah	YT4.2	75Ah	BT DC5.5
	66Ah	YT5.0	44Ah	RT 3.7
	75Ah	YT5.5	50Ah	RT 4.2
	55Ah	YT2.1(6V)	50Ah	BT SLI 4.2
			50Ah	RT 2.1 (6V)

AGM Spiralcell Type

Sealed, maintenance free VRLA batteries (Valve regulated Lead Acid)
General power supply on board ships and marine facilities. Also suitable for high current discharging as for electrical starting of combustion engines.
The 12V blocks can be combined to battery sets with desired voltage and/or capacity

Manufacturer: Enertec, Johnson Controls

Test Standard Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003
EN 50342-1: 2006

Documents Test report :GL Test note 37231 dated 2011-10-22
Data sheet: June 2005

Remarks Charging conditions of the manufacturer have to be considered

Valid until 2017-03-06

Page 1 of 1

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