



From Germany



RPower Battery

*20 Years Long-Life-Series 2V GEL Battery

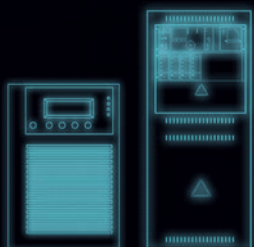
www.mak-powersis.de



*High Protected – Certificated
Fireproof Cables & Tap*



Fast Delivery To All Around The World



Max 15 Degree Battery Storage



TÜV Certificated Battery Test-Room

OgiV GEL 2V Long-Life-Baureihe L (Design Life 20+ Jahre) OGiV GEL 2V Long-Life-Series L (Design Life 20+ years)



Produktmerkmale / Product Features

- Besonders lange Gebrauchsdauer im Stand-By Betrieb
- enorme Kapazitäten
- schlag- und bruchfestes Kunststoffgehäuse aus ABS
- Elektrolyt in Glasfaservlies gebunden
(AGM = Absorbent Glass Mat Technology)
- wartungsfreier Betrieb in jeder Lage, ausgenommen kopfüber
- *very long service life by using stand-by operation*
- *large capacity*
- *impact- and break-proof ABS plastic case*
- *electrolyte bonded in glass fiber fleece
(AGM = Absorbent Glass Mat Technology)*
- *maintenance-free operation in any position, excluded head first*

RPower Typ / Type	Spg. Volt. V	Kap. Cap. Ah (C20)	Kap. Cap. Ah (C10)	Maße (mm) Dimensions				Gewicht Weight kg	Pol / Pole		Verbinder Connector acc. VDE	Karton Carton Stk./ Pcs.	Palette Pallet Stk./ Pcs.
				L	B	H	TH		Terminal	Pos.			
OGiV 22000 L	2	210,0	200,0	173	111	330	364	13,00	M8	--	--	1	48
OGiV 22500 L	2	262,0	250,0	173	111	330	364	15,00	M8	--	--	1	48
OGiV 23000 L	2	316,0	300,0	171	151	330	364	18,50	M8	--	--	1	30
OGiV 23500 L	2	368,0	350,0	171	151	330	364	20,50	M8	--	--	1	30
OGiV 24000 L	2	420,0	400,0	210	171	330	367	25,50	M8	--	--	1	32
OGiV 24500 L	2	472,0	450,0	241	171	330	365	29,50	M8	--	--	1	24
OGiV 25000 L	2	526,0	500,0	241	171	330	365	30,50	M8	--	--	1	24
OGiV 26000 L	2	630,0	600,0	302	175	330	367	36,50	M8	--	--	1	18
OGiV 27000 L	2	736,0	700,0	302	175	330	367	40,50	M8	--	--	1	18
OGiV 28000 L	2	840,0	800,0	410	175	330	367	50,50	M8	--	--	1	14
OGiV 29000 L	2	946,0	900,0	410	175	330	367	54,50	M8	--	--	1	14
OGiV 210000 L	2	1050,0	1000,0	475	175	330	367	61,00	M8	--	--	1	12
OGiV 212000 L	2	1260,0	1200,0	475	175	330	367	68,00	M8	--	--	1	12
OGiV 215000 L	2	1576,0	1500,0	400	350	345	382	94,00	M8	--	--	1	8

Anordnung der Pole / Terminal Position



A



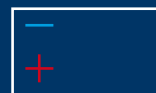
B



C



D



E



F

Verbinder und mehr...

Connectors and more...

Zur Verlegung einzeln „frei Luft“ (kurzschlußfest NSGAFÖU) For installation single „free air“ (short-circuit-proof NSGAFÖU)

Bauart Type	Leistung bis Load up to Ø mm ²	30°C		45°C		Verbinderauswahl L (mm) Connector selection L (mm)				
		(lt.VDE) / (acc. VDE)		Blockverb. Block conn.	Reihen- verb. Row conn.	Etagenverb. Tier conn.	6,3mm	M5 / M6	M8	
		A	A							
flexibles Kabel, kurzschlußfest (NSGAFÖU) mit isolierten Polschuhen. Bei Verlegung mit „Berührung an Flächen“, vermindert sich die zulässige Leistung um - 6% flexible cabel, short-circuit-proof (NSGAFÖU) with isolated pole shoes. When laying with „touch on areas“, the allowable Load decreases by - 6%	2,5	41	36	150			√	–	–	
		41	36		300		√	–	–	
		41	36			680		√	–	–
		41	36			1.000		√	–	–
	6	70	61	150				–	√	√
		70	61		300			–	√	√
		70	61			680		–	√	√
		70	61			1.000		–	√	√
	16	132	115	150				–	√	√
		132	115		300			–	√	√
		132	115			680		–	√	√
		132	115			1.000		–	√	√
	25	176	153	150				–	√	√
		176	153		450			–	√	√
		176	153			680		–	√	√
		176	153			1.000		–	√	√
	35	218	190	150				–	√	√
		218	190		450			–	√	√
		218	190			680		–	√	√
		218	190			1.000		–	√	√
50	276	240	200				–	√	√	
	276	240		450			–	√	√	
	276	240			680		–	√	√	
	276	240			1.000		–	√	√	
70	347	302					–	–	–	
	347	302		450			–	√	√	
	347	302			680		–	√	√	
	347	302			1.000		–	√	√	
95	416	362		450			–	√	√	
	416	362			1.000		–	√	√	

45°C sind zu empfehlen bei Schrankeinbauten (Kombischränken) mit Leistungsteil
45°C are recommended for inside cabinets (combined cabinets) incl. power section.

Die Kabelverbinder

nach (NSGAFÖU), sind flexibel, kurzschlußfest u. mit isolierten Polschuhen/-Stecker versehen.

Zur Standardlieferung der Batterieblöcke gehören:

kostenlose Isolier – / Polkappen aus Gummi (rot/schwarz) (ausgenommen FT-Baureihe)

Auf Wunsch:

Gegen Mehrpreis liefern wir gerne schwarze Gummi- oder Kunststoff Isolier / -Polkappen je Batterie, passend zu den gewählten Kabelquerschnitten.

Cable Connector

according to (NSGAFÖU), are flexible, short-circuit-proof and provided with isolated pole shoes /connectors.

Standard delivery of Battery Blocks includes:

Free insulating –/ terminal cover in rubber (red/black) (excluded FT series)

On Request:

At extra cost we gladly deliver black Rubber- or Plastic insulating/-terminal cover per battery, suitable for the chosen wire cross section.

Batterie Anschluss Einheit (im Klarsichtgehäuse)

Battery Connection Unit (in clear housing)

Zuordnung / Classification

getr. Batt.-Kreise mit höherer Gesamtpg. (Mittelabgriff) benötigen zusätzl. Einzelfassungen mit vergrößertem Abstand
 disconnected battery circles with higher voltage (center tap) needs single application with enhanced distance

NH Klasse Class	Pole	Gehäuse Housing LxBxH (mm)	gl/gG Sicherung/fuse		EFEN Sich./fuse
			480V	550V	
NH 00	3-polig	300x150x132	✓	✓	✓
NH 00	2x2-polig	300x300x132	✓	✓	✓
NH 00	3x2-polig	300x450x209	✓	✓	✓
NH 01	3-polig	300x450x209	✓	✓	–
NH 01	2x2-polig	600x600x170	✓	✓	–
NH 01	3x2-polig	600x600x170	✓	✓	–
NH 02	3-polig	300x600x132	✓	✓	✓
NH 02	2x2-polig	600x600x170	✓	✓	✓
NH 02	3x2-polig	600x600x170	✓	✓	✓
NH 03	3-polig	300x600x209	✓	✓	✓
NH 03	2x2-polig	600x600x170	✓	✓	✓
NH 03	3x2-polig	600x600x170	✓	✓	✓
NH 04	2-polig	850x575x225	✓	✓	✓
NH 04	3-polig	850x575x225	✓	✓	✓
NH 04	4-polig	850x575x225	✓	✓	✓

Sicherung / Fuse NH 00: 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100, 125 A
 Sicherung / Fuse NH 01: 160, 200, 224, 250 A
 Sicherung / Fuse NH 02: 250, 315, 355, 400 A
 Sicherung / Fuse NH 03: 400, 500, 630 A
 Sicherung / Fuse NH 04: 800, 1000, 1250 A

Bei Parallelschaltung bis 3 Batterien auf einer Sicherung empfehlen wir zusätzliche Verteilerklemmen!
In parallel to the 3 batteries on a backup, we recommend additional distribution terminals!



3-polig / 3-pole



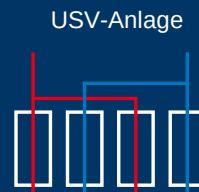
2x2-polig / 2x2-pole



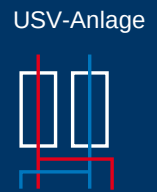
3x2-polig / 3x2-pole

Beispiel einer BAE Anschluss-Schaltung

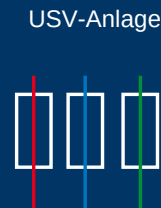
Example for a BCU connector-circuit



Batt. 1 Batt. 2
(4-pole)



Batt. 1 Batt. 2
(2-pole parallel circuit)



Battery with center tap



Battery fuse 2-pole

Bei mehrpoligen Anschlüssen gilt, dass jedes Kabel für I_{max} der Anlage ausgelegt sein sollte, damit bei Abschaltung eines Batteriestranges die gesamte Last vom Rest problemlos übernommen werden kann.

For multi-pin connectors, each cable for the I_{max} system should be designed so that a battery-string can be switched off and the rest of the system takes over the then increased load easily.

Für die Auslegung der Si-Auslöse-Ströme sind ca. 120% der max. Verbraucherleistung vorzusehen.

For the design of the fuse-trigger currents approximately 120% of max. consumer capacity are to be provided.

Warum RPower OGiV Batterien? / Why RPower OGiV batteries?

- **100% OEM Lieferungen möglich**
100% OEM deliveries possible
- **Hohe Qualitätsstandards**
High quality standards
- **Umfassend Lieferumfang
(Verbinder, Polfett, Dokumentation, Aufkleber)**
*Comprehensive delivery
(connector, terminal grease, documentation, stickers)*
- **Europaweite Logistik**
Logistics Europe wide
- **Große Produktvielfalt**
Large product range
- **Lösungen für verschiedene
Batterieanwendungen**
Solutions for different battery applications
- **Hohe Verfügbarkeit und schnelle Lieferungen**
High availability and fast deliveries
- **Komplettservice inkl. Gestellen, Batterietrenner
und Verkabelung/Montage vor Ort**
*Complete Service incl. racks, battery isolator and
wiring/installation on site*
- **Direkt support durch unseren Außen- und
Innendienst**
*Direct support through our outside and inside
sales service*
- **Mehr als 30 Jahre Erfahrung**
More than 30 years of experience
- **Eigenentwicklungen Batteriemesstechnik**
*Own developments - i.e. battery measurement
technology*



Lieferantenerklärung / Supplier Declaration

Hiermit bestätigen wir, dass die wartungsfreie Blei-Rekombinations-batterie

Fabrikat: RPower
Baureihen: GiV, OGiV H+, OGiV H, OGiV L, GEL, OGiV 2V, RB
Reinblei, OGiV FT, GEL FT, OPzV

die Anforderungen gemäß
VDE 0108 -100 Punkt 6.4.3.1, (EN 50172),
VDE 0510 Teil 2, Tabelle 4 (EN 50272-2),
sowie
VDE 0100/710

erfüllt, sofern diese auf völlig verschlossene Pb-Batterien anwendbar sind.

Dazu ist die Kontrolle des Elektrolytstandes oder Wasser nachfüllen nicht möglich bzw. unnötig.

Die Batterien sind als Gitterplattenbatterie aufgebaut und entsprechen der Norm O/Gi.V und sind geprüft gemäß

DIN 43539, Teil 4

Diese Bauart (verschlossen und gasrekombinierend) ermöglicht Wartungsfreiheit über die gesamte Gebrauchsdauer. Es kann in keinem Gebrauchs- oder Gefahrenzustand so viel Elektrolyt austreten, dass zwingende Vorkehrungen (VDE/EN) gegen austretende Flüssigkeit für den Fußboden (Säurewannen/säurebeständiger Anstrich) nötig sind.

Ferner entsprechen diese Batterien den EUROBAT Richtlinien und IEC Vorgaben. D.h. bei einer Umgebungstemperatur von 20°C, ist die konstruktive Lebensdauer bei Standardanwendungen:

4-6 Jahre	GiV V/S
3-5 Jahre	GiV H
10-12 Jahre	OGiV H+ / OGiV H
12+ Jahre	OGiV L / OGiV 2V
10-12 Jahre	OGiV FT
12+ Jahre	GEL / GEL FT
20 Jahre	RB Reinblei

18 Jahre OPzV

Die Produktion dieser Batterien ist zertifiziert nach:

EN ISO 9001, ISO 14001, IEC 60896, UL

und die Batterien sind „nicht melde- oder registrierungspflichtig“ nach der europäischen REACH Verordnung.

RP Technik ist mit RPower Batterien als Hersteller im UBA gemeldet und wird geführt, unter der

UBA Melde-Register Nr.: 21000732

Entsprechend sorgen wir (nach Abstimmung) für die korrekte Entsorgung der Alt-Batterien.

RPower-Batterien sind kein Gefahrgut, solange die Batteriepole gegen Kurzschluss, Verrutschen, Umfallen und Beschädigungen gesichert sind. (Gefahrgutverordnung GGVS).

Dies gilt für: Straße, Eisenbahn, Seefracht und Lufttransport, sowie nach den Regeln der:

IATA, Regel A 67 ADR, Regel 598
IMDG, Regel 238.2 UN 2800

Special Provisions

Oktober 2014
RP-Technik Notstromsysteme

We hereby confirm that the maintenance-free lead-recombination battery

Make: RPower
Series: GiV, OGiV H+, OGiV H, OGiV L, GEL, OGiV 2V, RB
Pure Lead, OGiV FT, GEL FT, OPzV

meets the requirements of
VDE 0108 -100 Point 6.4.3.1, (EN 50172),
VDE 0510 Part 2, Table (EN 50272-2),
and
VDE 0100/710

as far as those are applicable to completely sealed lead-acid batteries.

Control of electrolyte level and topping up is impossible or unnecessary.

The batteries are built as flat plate battery and conform to the standard O/Gi.V, and are tested according to

DIN 43539, Part 4

This design (sealed and gas recombination) allows maintenance-freedom over the entire service life. It can not emerge in any use or threaten condition that much electrolyte, that imperative precautions (VDE/EN) for discharging liquid from the floor (acid bath / acid resistant coating) are required.

We further confirm that these batteries are following the EUROBAT guidelines and IEC standards. That it to say at an ambient temperature of 20°C, the design lifetime for standard applications:

4-6 years	GiV V/S	
3-5 years	GiV H	
10-12 years	OGiV H+ / OGiV H	
12+ years	OGiV L / OGiV 2V	
10-12 years	OGiV FT	
12+ years	GEL / GEL FT	
20 years	RB Pure Lead	

18 years OPzV

The production of these batteries is certified by:

EN ISO 9001, ISO 14001, IEC 60896, UL

and the batteries need „no reporting or registration requirements,“ according to the EUROPEAN REACH Regulation

RP-Technik is registered with RPower batteries as manufacturer and the UBA is conducted under the

UBA Reporting Registry No.: 21000732

Accordingly, we provide (after notice) for the proper disposal of used batteries.

RPower batteries are not hazardous as long as the battery terminals are secured against short circuit, slipping, fall over and damage. (Dangerous Goods Regulation).

This applies to: Road, rail, sea and air transport, and according to the rules:

IATA, Rule A 67 ADR, Rule 598
IMDG, Rule 238.2 UN 2800

Special Provisions

Oktober 2014
RP-Technik Notstromsysteme

**Instructions****for the safe handling of lead-acid accumulators****1 Substance / formulation - and company name**

Data on the product:	Lead-acid battery filled with diluted sulphuric acid (1.22...1.29 kg/l)	
Trade name	RPower GIV/OGIV...	Absorbent Glass Mat (AGM), Battery
Data on the manufacturer:	RP Technik Hermann-Staudinger Str.10-16 D-633110 Rodgau (Germany)	Amtsgericht Offenbach HRA 40743 USt-IdNr.: DE 114053464 UBA Register-Nr.:21000732
Ansprechpartner:	Geschäftsführung:	Reinald Pasedag
Telephone:	+49 (0) 6106 66028-0	http://www.rptechnik.de
Facsimile:	+49 (0) 6106 66028-40	info@rptechnik.de

2 Hazardous substances

CAS-Nr.	Description	Content	Unit	R-phrases
7439-92-1	Blue lead		Weigth. %	-----
7439-92-1	lead alloys with traces of As, Sb	34	Weigth. %	-----
	Spuren As, Sb			
	lead-containing battery paste	31	Weigth. %	R 61-20/22-33-62
7664-93-9	sulphuric acid	34	Weigth. %	R 35

3 Potential hazards

No hazards in case of an intact battery and observation of the instructions for use.
Lead-acid batteries have two significant characteristics:
 They contain diluted sulphuric acid, which may cause severe acid burns.
 During the charging process they develop hydrogen gas and oxygen, which under certain circumstances may turn into an explosive mixture.

**Instructions for the safe handling of lead-acid accumulators**

For this reason, the batteries have been marked with the following hazard symbols:



The significance of the hazard symbols is:

No smoking, no pen flames, no sparks.



Wear safety goggles.



Keep away from children.



Sulphuric acid



Observe operating instructions



Explosive gas mixture

4 First-aid measures**General information:**

Sulphuric acid	acts corrosive and damages tissue.
Lead-containing battery paste	classified as toxic for reproduction
Lead-containing battery paste after contact to skin	clean with water and soap
Sulphuric acid; after contact to skin	rinse with water; remove and wash wetted clothing
after inhalation of acid mist *)	inhal fresh air
after contact with the eyes *)	rinse under running water for several minutes
after swallowing *)	drink a lot of water immediately, and swallow activated carbon

*) Seek the advice of a doc-

5 Fire-fighting measures

Suitable extinguishing agents:
CO and solid extinguishing agent
Unsuitable extinguishing agents:
water in case of battery voltages of over 120 V
Special protective equipment:
protective goggles, respiratory protective equipment, acid protective equipment, acid-proof clothing in case of larger stationary battery plants of larger quantities stored

6 Measures to be taken in case of unintentional release

Cleaning / take-up procedures
 Use a bonding agent, such as sand, to absorb spill acid;
 use lime / sodium carbonate for neutralisation; dispose with due regard to the official local regulations; do not permit penetration into the sewage system, the earth or water bodies.

7 Handling and storage

Store frost-free under roof; prevent short circuits. Seek agreement with local water authorities in case of larger quantities. If batteries have to be stored in storage rooms, it is imperative that the instructions for use are observed.

**Instructions for the safe handling of lead-acid accumulators****8 Exposure limits and personal protective equipment**

8.1 No exposure caused by lead and lead-containing battery

8.2 Possible exposure caused by sulphuric acid and acid mist during filling and charging.

CAS-Nr.	7664-93-9	
R-Sätze	R - 35	Causes severe burns.
S-Sätze	S-12	Keep locked up and out of reach of children.
	S-26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
	S-30	Never add water to this product (applies for concentrated acid only, and not for refilling the battery with water).
	S-45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

Threshold value on workplace	0,1 mg/m ³ *)
Hazard symbol	C, corrosive
Personal protective equipment:	Rubber, PVC gloves, acid-proof goggles, acid-proof clothing, safety boots.

*) 0,5 mg/m³ at the lead battery production

9 Physical and chemical properties

Lead	Sulphuric acid (30 to 38,5 %)
Appearance	
form:	solid
colour:	grey
odour:	odourless
Safety-related data	
solidification point:	solidification point: 327 °C
	- 35 to - 60 °C
boiling point:	boiling point: 1.740 °C
	approx. 108 to 114 °C
solubility in water (25 °C):	solubility in water (25 °C): (25 °C): low (0,15 mg/l)
	complete
density (20 °C):	density (20 °C): 11.35 g/cm ³
	(1.2 to 1.3) g/cm ³
vapour pressure (20 °C)	vapour pressure (20 °C)

10 Stability and reactivity of the sulphuric acid (30 to 38,5 %)

- Corrosive, inflammable liquid
- Thermal decomposition at 338 °C
- Destroys organic materials, such as cardboard, wood, textiles.
- Reacts with metals producing hydrogen.
- Vigorous reactions with lysand alkalis.

11 Data on toxicology of the constituents**Schwefelsäure**

- Sulphuric acid acts intensely corrosive on skin and mucous membranes. The inhalation of mists may cause damage to the respiratory tract.
- Lead and lead-containing battery paste** may cause damage to the blood, nerves, and kidneys when taken in. Lead-containing battery paste is classified as toxic for reproduction.

12 Data on the ecology of the constituents *)

- Sulphuric acid**
Water-polluting liquid within the meaning of the German-Water-Resources Act (WHG) Water pollution class: 1 (mildly water polluting)
In order to avoid damage to the sewage system, the acid has to be neutralised by means of lime or sodium carbonate before disposal. Ecological damage is possible by change of pH.

*) applies only to release caused by the destruction of the battery.

**Instructions for the safe handling of lead-acid accumulators**

- Lead and lead-containing battery paste

are poorly soluble in water. Lead can be dissolved in an acidic or alkaline environment. Chemical and physical treatment is required for elimination from water.

Waste water containing lead must not be disposed of in untreated condition.

13 Recycling information

The points of sale, the manufacturers and importers of batteries, respectively the metal dealers take back dead batteries, and render them to the secondary lead smelters for processing.

Spent lead-acid batteries are not subject to accountability of the German Waste Prove Ordinance. They are marked with the recycling / return symbol and with a crossed-out roller container (cf. chapter 15 „Marking“).

Spent lead-acid batteries are not allowed to be mixed with other batteries in order not to complicate the processing.
By no means may the electrolyte, the diluted sulphuric acid, be emptied in an inexpert manner. This process is to be carried out by the processing companies.

14 Transport instructions**Surface transport**

New and spent lead-acid batteries are not subject to the German Regulations on Dangerous Goods carried on Land, if the following conditions are adhered to: RID/ADR Special provision 598

- Sea transport**
On account of the versatility in makes and the thus resulting different requirements, please enquiry with the supplier.

15 Marking

In accordance with the German-Battery Ordinance lead-acid batteries have to be marked by a crossed-out refused bin with the chemical symbol for lead Pb shown below.

In addition, the ISO-return/ recycling symbol is rendered.

The manufacturer, respectively the importer of the batteries shall be responsible for the attachment of the symbols. In addition, a consumer / user information maton.

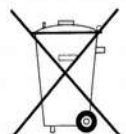


on the significance of the symbols has to be attached, which is required by the German Battery Ordinance quoted above as well as by the voluntary agreement of the battery manufacturers concluded with the German Federal Minister of the Environment in September 1988.

The manufacturers and sellers of the batteries subject to identification requirements (packaging, technical instructions, leaflets) shall be responsible for this information.

16 Miscellaneous data

The data rendered above are based on today's knowledge, and do not constitute an assurance of properties. Existing laws and regulations have to be observed by the recipient of the product in own responsibility.



Pb

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Diese Bauart (verschlossen und gasrekombinierend) ermöglicht Wartungsfreiheit über die gesamte Gebrauchsdauer. Es kann in keinem Gebrauchs- oder Gefahrenzustand so viel Elektrolyt austreten, dass zwingende Vorkehrungen (VDE/EN) gegen austretende Flüssigkeit für den Fußboden (Säurewannen/säurebeständiger Anstrich) nötig sind.

Ferner entsprechen diese Batterien den EUROBAT Richtlinien und IEC Vorgaben. D.h. bei einer Umgebungstemperatur von 20°C, ist die konstruktive Lebensdauer bei Standardanwendungen:

4-6 Jahre	GiV V/S
3-5 Jahre	GiV H
10-12 Jahre	OGiV H+ / OGiV H
12+ Jahre	OGiV L / OGiV 2V
10-12 Jahre	OGiV FT
12+ Jahre	GEL / GEL FT
20 Jahre	RB Reinblei

18 Jahre OPzV

Die Produktion dieser Batterien ist zertifiziert nach:

EN ISO 9001, ISO 14001, IEC 60896, UL

und die Batterien sind „nicht melde- oder registrierungspflichtig“ nach der europäischen REACH Verordnung.

RP Technik ist mit RPower Batterien als Hersteller im UBA gemeldet und wird geführt, unter der

UBA Melde-Register Nr.: 21000732

Entsprechend sorgen wir (nach Abstimmung) für die korrekte Entsorgung der Alt-Batterien.

RPower-Batterien sind kein Gefahrgut, solange die Batteriepole gegen Kurzschluss, Verrutschen, Umfallen und Beschädigungen gesichert sind. (Gefahrgutverordnung GGVS).

Dies gilt für: Straße, Eisenbahn, Seefracht und Lufttransport, sowie nach den Regeln der:

IATA, Regel A 67 ADR, Regel 598
IMDG, Regel 238.2 UN 2800

Special Provisions

Oktober 2014
RP-Technik Notstromsysteme

We hereby confirm that the maintenance-free lead-recombination battery

Make: RPower
Series: GiV, OGiV H+, OGiV H, OGiV L, GEL, OGiV 2V, RB
Pure Lead, OGiV FT, GEL FT, OPzV

meets the requirements of
VDE 0108 -100 Point 6.4.3.1, (EN 50172),
VDE 0510 Part 2, Table (EN 50272-2),
and
VDE 0100/710

as far as those are applicable to completely sealed lead-acid batteries.

Control of electrolyte level and topping up is impossible or unnecessary.

The batteries are built as flat plate battery and conform to the standard O/Gi.V, and are tested according to

DIN 43539, Part 4

This design (sealed and gas recombination) allows maintenance-freedom over the entire service life. It can not emerge in any use or threaten condition that much electrolyte, that imperative precautions (VDE/EN) for discharging liquid from the floor (acid bath / acid resistant coating) are required.

We further confirm that these batteries are following the EUROBAT guidelines and IEC standards. That it to say at an ambient temperature of 20°C, the design lifetime for standard applications:

4-6 years	GiV V/S	
3-5 years	GiV H	
10-12 years	OGiV H+ / OGiV H	
12+ years	OGiV L / OGiV 2V	
10-12 years	OGiV FT	
12+ years	GEL / GEL FT	
20 years	RB Pure Lead	

18 years OPzV

The production of these batteries is certified by:

EN ISO 9001, ISO 14001, IEC 60896, UL

and the batteries need „no reporting or registration requirements,“ according to the EUROPEAN REACH Regulation

RP-Technik is registered with RPower batteries as manufacturer and the UBA is conducted under the

UBA Reporting Registry No.: 21000732

Accordingly, we provide (after notice) for the proper disposal of used batteries.

RPower batteries are not hazardous as long as the battery terminals are secured against short circuit, slipping, fall over and damage. (Dangerous Goods Regulation).

This applies to: Road, rail, sea and air transport, and according to the rules:

IATA, Rule A 67 ADR, Rule 598
IMDG, Rule 238.2 UN 2800

Special Provisions

Oktober 2014
RP-Technik Notstromsysteme

CERTIFICATE



ISO 9001:2008

DEKRA Certification GmbH hereby certifies that the company
RP-Technik GmbH

Scope of certification:
Development, manufacture and distribution of emergency power systems and batteries

Certified location:
D-63110 Rodgau, Hermann-Staudinger-Straße 10-16
D-07318 Saalfeld/Saale, Mittlerer Watzembach 3

has established and maintains a quality management system according to the above mentioned standard. The conformity was adduced with audit report no. A14031532.

This certificate is valid from 2014-08-01 to 2017-07-31 Certificate registration no.: 100814515 Duplicate



DEKRA Certification GmbH
Stuttgart, 2014-08-01

Lack of fulfilment on conditions as set out in the Certification Agreement may render this certificate invalid.

DEKRA Certification GmbH * Handwerkstraße 15 * D-70565 Stuttgart * www.dekra-certification.de
page 1 of 1



Zertifikat Certificate

Anerkennung von Bauteilen und Systemen Approval of Components and Systems



Inhaber der Anerkennung
Holder of the Approval
RP-Technik e.K.
Hermann-Staudinger Str. 10 - 16
63110 Rodgau

Anerkennungs-Nr. Approval No.	Anzahl der Seiten No. of pages	gültig vom valid from	gültig bis valid until
G 109050	4	10.10.2012	09.10.2016

Gegenstand der Anerkennung
Subject of the Approval
**Wartungsfreie Blei-Batterie
RPower GiV 12650V**

Verwendung
Use
in Gefahrenmeldeanlagen

Anerkennungsgrundlagen
Basis of the Approval
VdS 2344:2012-07
VdS 2110:2011-01
VdS 2102:2001-07

Köln, den 21.09.2012



Reinermann
Reinermann
Geschäftsführer
Managing Director

I. V. Grundmann
I. V. Grundmann
Leiter der Zertifizierungsstelle
Head of Certification Body

Die Anerkennung
umfasst nur das angegebene Bauteil/System in der zur Prüfung angeordneten 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 - mit sämtlichen 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. 17A
D-50275 Köln
Ein Unternehmen des Gesamtverbandes der Deutschen Versicherungswirtschaft e.V. (GDV), akkreditiert als Zertifizierungsstelle für die Bereiche Brandschutz und Sicherheitstechnik von der Deutschen Akkreditierungsstelle Technik (DATeT).

A company of the German Insurance Association (GDV) accredited by "Deutsche Akkreditierungsstelle Technik (DATeT)" as a certification body for fire protection and security.

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