



D.P Electronics.e.K  
(Deutsche Power)

# BATTERIES

VRLA / GELL  
2V / 6V / 12V

 High Efficiency The  
Exceptional Leak Proof

# GEL BATTERIES

## AGM Gel Battery (12V Cell)

### Durable and Power Full Batteries

A VRLA battery (valve-regulated lead-acid battery) more commonly known as a sealed battery (SLA) is a lead acid rechargeable battery because of their construction, VRLA batteries do not require regular addition of water to the cells, and vent less gas than flooded lead-acid batteries. The reduced venting is an advantage since they can be used in confined or badly ventilated spaces, but sealing cells and preventing access to the electrolyte also has several considerable disadvantages as discussed below. VRLA batteries are commonly further classified as, Absorbed glass mat (AGM) battery & Gel battery ("GEL CELL").

DP Electronics e.K has a high and new technology enterprises in the field of valve-controlled sealed lead-acid battery. DP Electronics e.K has passed ISO9001 quality system certification, ISO14001 environmental management system certification, products of the battery has passed the international CE, FCC, UL certification.

Series of Gel valve-controlled sealed lead-acid battery performance indicators have reached the IEC standard and Germany DIN standard requirements.

Deutsche Power has the following range

AGMBattery		GELBattery	
NP Series (General Battery)	12V Cell	GFM Series	2V Cell
NPF Series (General Battery)	12V Cell	NPG Series	12V Cell
NPL Series (Deep cycle Battery)	12V Cell	NPFG Series	12V Cell

## Applications

Audio & Video Equipment, Geo physical Equipment Burglar and Fire Alarm, Solar Power Devices Portable Lights, UPS Equipment, Electric Wheel chairs Riding Toys, Cash Registers, Emergency Lighting Test Equipment, Robotics, Telecommunications.



## Conformity

Conform to EU EMC-Directive 2004/108/EC  
EN 61000-6-1: 2007  
EN 61000-6-3: 2007  
IEC, JIS, UL, BS6290 - Part 4

## Low Self Discharge & Long Shelf Life

Because of the use of lead calcium alloy grids, Deutsche Power battery has less than 3% self-discharge monthly at room temperature of 25C and it can be stored for long periods of time without recharge.

## Gas Recombination System

More than 99% of gasses generated in the normal charge / discharge use of a rechargeable battery are internally recombined during normal operating parameters.

## Exceptional Leak Proof

As all the acid is absorbed in the valve regulated (sealed) construction which provides a safe Non-spillable battery that is leak proof.

## Innovative Technique

Benchmarking Technique - Semi automated Cast On Strap (COS) production, this unique production together with a computer program (CUP) controlling welding temperature and time to guarantee welding quality which provides benefit of plate consistency and enhanced plate performance. Terminals are formed in a single cast on strap operation that greatly reduces the welding resistance of the terminals and increases their current carrying capacity.

## Electrolyte Maintenance Free Operation

The separator used is made of non-woven fabric of fine glass fibers which have high resistance to acid and low electro-conductivity. The high porosity of the separators retains adequate electrolyte for the reaction of active materials in the plates. As a result, no electrolyte maintenance is needed for the life of the battery. There is no need to add water or take specific gravity readings.

# GEL BATTERIES

## GEL Batteries 'NPG Series'

### Gel Design Deep Cycle 12V Cell 15 Years Design Life

Gel electrolyte, acid-free fluid stratification, plate response uniform, enhancing the reliability of large battery capacity and service life. Minimal maintenance, never needs water



## GEL Series

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Gel batteries are known for better resistance to extreme temperatures, shock, and vibration and do not even need to be kept upright. Chemically they are the same as wet-cell batteries except that the antimony in the lead plates is replaced by calcium. In addition, gel battery technology is very similar to AGM batteries but uses this gelled electrolyte to recycle the gassing instead of the Absorbent Glass Material that AGM batteries utilize.



## Features

- Non-spill-able
- Great for deep-cycle applications
- Valve regulated with Catalyst
- Fully tank formed plates
- Spill proof and leak proof
- Low gassing on float charge
- Operates at low internal pressure
- Increased safety
- Manifolder gasing system
- NEGATIVE PLATE: Flat pasted grid
- POSITIVE PLATE: Lead calcium flat plate grid
- ELECTROLYTE: Sulphuric acid or thixotropic Gel
- Shock absorbent thick wall polypropylene cases
- High purity lead calcium-tin alloy grids (patented)
- May be operated in virtually any position a (upside-down is not recommended)
- Recombination reaction (recombinant battery) prevents escape of hydrogen and oxygen gases normally lost in flooded lead-acid batteries

# GEL BATTERIES

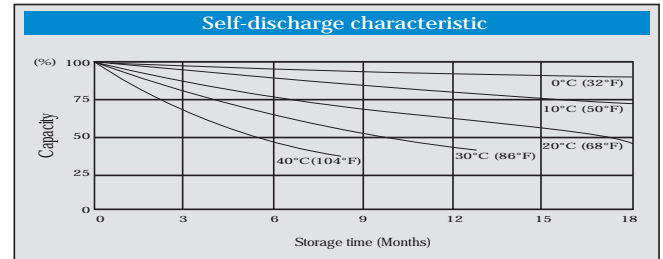
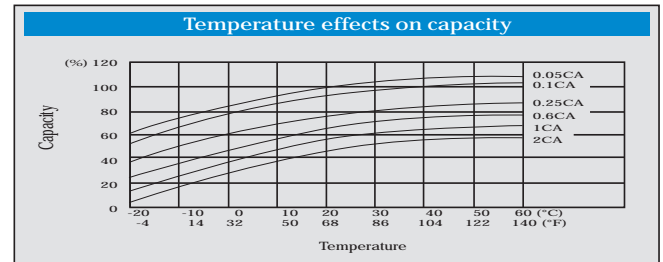
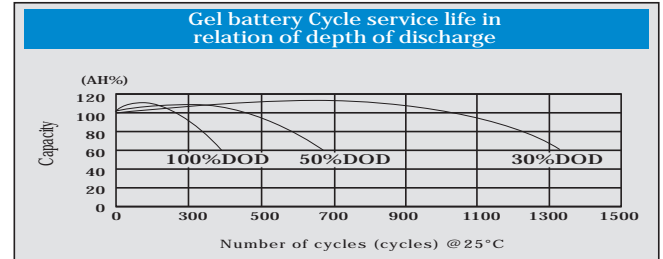
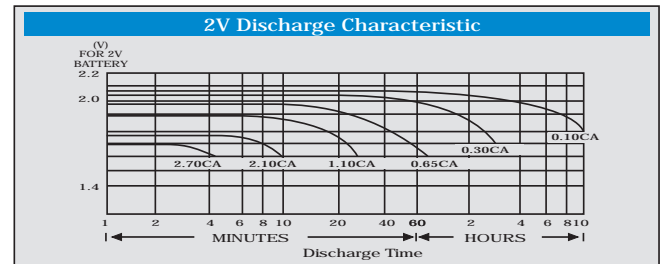
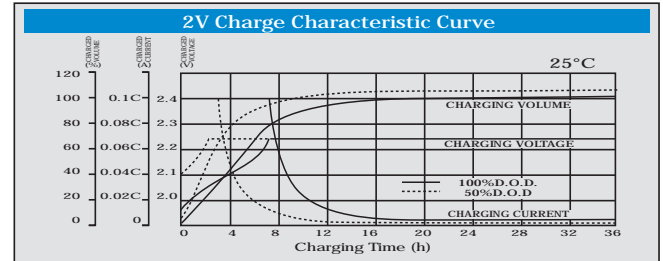


## NPG Gel Series 6/12V Cell

Battery Model	Specification	Dimension (mm)				Weight Kg±0.5Kg	Capacity (AH) @ 25°C, 1.75V/Cell				
		L±1	W±1	H1±2	H2±2		3HR	5HR	10HR	20HR	100HR
NPG225-6	225AH-6V	243	188	275	275	33	140	155	180	200	220
NPG18-12	18AH-12V	181	76	168	168	5.8	12.5	13.5	15	16	18.2
NPG26-12	26AH-12V	166	126	176	176	10.0	19.0	21	24	26	29
NPG33-12	33AH-12V	195	131	151	151	11.0	22	24	28	31	35
NPG40-12	40AH-12V	198	166	170	170	14.8	29	32	36	40	44
NPG55-12	55AH-12V	229	138	214	214	19.0	39	42	50	55	60
NPG70-12	70AH-12V	260	168	214	214	25.5	50	54	65	70	76
NPG80-12	80AH-12V	260	168	214	214	26.5	55	60	70	80	85
NPG90-12	90AH-12V	306	168	214	214	30.5	54	70	81	90	100
NPG100-12	100AH-12V	306	168	214	214	32.5	70	75	90	99	105
NPG110-12	110AH-12V	326	173	212	217	34.0	78	85	102	110	120
NPG120-12	120AH-12V	326	173	212	217	36.0	88	95	110	120	130
NPG135-12	135AH-12V	341	173	281	281	42.5	83	90	120	135	140
NPG150-12	150AH-12V	482	170	238	238	48.5	106	115	135	150	160
NPG200-12	200AH-12V	520	238	223	223	66.0	140	155	180	200	220
NPG250-12	250AH-12V	520	260	220	220	80.5	165	180	220	240	260



## GEL 12V Characteristic Battery Charts



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