



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

BATTERIES

VRLA / SLA / GELL
2V / 6V / 12V

Deutsche Power

**High Efficiency The
Exceptional Leak Proof**

VRA / SLA BATTERIES

AGM Battery (2V, 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.

AGM Battery (2V, 12V Cell)

NP Series (General Battery) 12V Cell

Features

- Maintenance-free without rehydration;
- Internal resistance is small, high rate discharge performance;
- Wide temperature (-35 C~45 C)
- Low self discharge
- Long service life (3-5)
- Charging factory, easy to use
- Safe and explosion-proof
- Unique recipes, deep discharge recovery performance
- Non-free electrolytes, lateral 90 degrees has been able to use.



Battery Model	Specification	Dimension (mm)				Weight Kg±0.5Kg	Capacity (AH) @ 25°C, 1.75V/Cell				
		L±1	W±1	H1±2	H2±2		1HR	3HR	5HR	10HR	20HR
NP4-12	4AH-12V	90	70	102	106	1.52	2.3	3.0	3.45	3.8	4.0
NP4.5-12	4.5AH-12V	90	70	102	106	1.70	2.65	3.4	3.83	4.2	4.5
NP5-12	5AH-12V	90	70	102	106	1.90	3.0	3.8	4.3	4.8	5.0
NP6-12	6AH-12V	151	65	94	99	2.15	3.3	4.5	4.3	5.7	6.0
NP7-12	7AH-12V	151	65	94	99	2.30	4.2	5.4	6.1	6.8	7.0
NP7.5-12	7.5AH-12V	151	65	94	99	2.40	4.5	5.7	6.5	7.2	7.5
NP8-12	8AH-12V	151	65	94	99	2.50	4.6	6.0	6.8	7.5	8.0
NP9-12	9AH-12V	151	65	94	99	2.60	5.0	6.8	7.7	8.5	9.0
NP12-12	12AH-12V	151	98	98	102	3.80	7.0	9.1	10.5	11.0	12.0
NP14-12	14AH-12V	151	98	98	102	4.10	8.0	10.6	12.0	13.0	14.0
NP18-12	18AH-12V	181	76	165	165	5.40	9.9	13.5	15.3	17.0	18.0
NP20-12	20AH-12V	181	76	165	165	7.50	12.0	15.3	17.5	18.5	20.0
NP24-12	24AH-12V	177	167	125	125	8.00	13.5	18.5	21.0	22.5	24.0
NP26-12	26AH-12V	165	126	176	176	8.01	14.8	19.5	22.0	24.0	26.0
NP28-12	28AH-12V	166	125	175	175	9.7	15.5	21.0	24.0	26.0	28.0
NP33-12	33AH-12V	196	131	155	166	10.5	18.3	25.0	28.2	32.0	33.0
NP38-12	38AH-12V	197	165	170	170	13.3	22.0	29.0	33.0	38.0	40.0
NP44-12	44AH-12V	197	165	170	170	14.5	24.2	35.0	39.5	44.0	46.0
NP55-12	55AH-12V	228	137	208	227	18.6	32.0	43.0	47.5	55.0	58.0
NP65-12	65AH-12V	350	168	179	179	31.3	38.0	50.0	57.0	65.0	68.0
NP70-12	70AH-12V	259	168	208	213	22.0	41.0	54.0	61.0	70.0	73.0
NP80-12	80AH-12V	259	168	208	231	24.0	45.0	61.0	69.0	80.0	85.0
NP90-12	90AH-12V	307	169	208	213	26.8	51.0	69.0	78.0	90.0	100.0
NP100-12	100AH-12V	328	172	214	219	30.5	59.0	78.0	88.0	100.0	110.0
NP110-12	110AH-12V	328	172	214	219	31.2	51.0	79.0	90.0	110.0	120.0
NP120-12	120AH-12V	409	177	225	225	36.0	70.0	92.0	105.0	120.0	130.0
NP135-12	135AH-12V	341	172	282	288	41.8	75.0	102.0	115.0	135.0	148.0
NP150-12	150AH-12V	483	170	241	241	44.5	87.0	115.0	130.0	150.0	165.0
NP160-12	160AH-12V	532	207	214	240	53.2	90.0	122.0	140.0	160.0	176.0

NPL Series (Deep cycle Battery) 12V Cell

Features

- Deep Cycle design
- 10 Years design Life
- Maintenance-free without rehydration;
- Internal resistance is small, high rate discharge performance
- Wide temperature (-35 C~45 C)
- Low self discharge
- Long service life (8-10) years
- Charging factory, easy to use
- Safe and explosion-proof
- Unique recipes, deep discharge recovery performance
- Non-free electrolytes, lateral 90 degrees has been able to use.



Battery Model	Specification	Dimension (mm)				Weight Kg±0.5Kg	Capacity (AH) @ 25°C, 1.75V/Cell				
		L±1	W±1	H1±2	H2±2		1HR	3HR	5HR	10HR	20HR
NPL120-6	120AH-6V	195	170	206	209	17.0	2.3	92.0	10.5	120.0	125.0
NPL180-6	180AH-6V	306	168	220	225	28.7	2.65	140.0	155.0	180.0	200.0
NPL200-6	200AH-6V	323	178	225	229	30.2	3.0	152.0	172.0	200.0	220.0
NPL12-12	12AH-12V	151	98	98	102	3.80	3.3	9.1	10.5	11.0	12.0
NPL14-12	14AH-12V	151	98	98	102	4.10	4.2	10.6	12.0	13.0	14.0
NPL18-12	18AH-12V	181	76	165	165	5.40	4.5	13.5	15.3	17.0	18.0
NPL20-12	20AH-12V	181	76	165	165	7.50	4.6	15.3	17.5	18.5	20.0
NPL24-12	24AH-12V	177	167	125	125	8.00	5.0	18.5	21.0	22.5	24.0
NPL26-12	26AH-12V	165	126	176	176	8.1	7.0	19.5	22.0	24.0	26.0
NPL28-12	28AH-12V	166	125	175	175	9.7	8.0	21.0	24.0	26.0	28.0
NPL33-12	33AH-12V	196	131	155	166	10.5	9.9	25.0	28.2	32.0	33.0
NPL38-12	38AH-12V	197	165	170	170	13.3	12.0	29.0	33.0	38.0	40.0
NPL44-12	44AH-12V	197	165	170	170	14.5	13.5	35.0	39.5	44.0	46.0
NPL55-12	55AH-12V	228	137	208	227	18.6	14.8	43.0	47.5	55.0	58.0
NPL65-12	65AH-12V	350	168	179	179	21.3	15.5	50.0	57.0	65.0	68.0
NPL70-12	70AH-12V	259	168	208	213	22.0	18.3	54.0	61.0	70.0	73.0
NPL80-12	80AH-12V	259	168	208	231	24.0	22.0	61.0	69.0	80.0	85.0
NPL90-12	90AH-12V	307	169	208	213	26.8	24.2	69.0	78.0	90.0	100.0
NPL100-12	100AH-12V	328	172	214	219	30.5	32.0	78.0	88.0	100.0	110.0
NPL110-12	110AH-12V	328	172	214	219	31.2	38.0	79.0	90.0	110.0	120.0
NPL120-12	120AH-12V	409	177	225	225	36.0	41.0	92.0	105.0	120.0	130.0
NPL135-12	135AH-12V	341	172	282	288	41.8	45.0	102.0	115.0	135.0	148.0
NPL150-12	150AH-12V	483	170	241	241	44.5	51.0	115.0	130.0	150.0	165.0
NPL160-12	160AH-12V	532	207	214	240	53.4	59.0	122.0	140.0	160.0	176.0
NPL180-12	180AH-12V	532	207	214	240	56.3	51.0	140.0	155.0	180.0	198.0
NPL200-12	200AH-12V	522	240	218	244	61.5	70.0	152.0	172.0	200.0	220.0
NPL230-12	230AH-12V	521	269	203	206	66.0	75.0	172.5	196.0	230.0	250.0
NPL240-12	240AH-12V	521	269	203	206	67.0	87.0	182.0	206.0	240.0	260.0
NPL250-12	250AH-12V	520	269	220	223	76.0	90.0	190.0	215.0	250.0	270.0

AGM Battery (2V, 12V Cell)

NPF Series (General Front Terminal Battery) 12V Cell

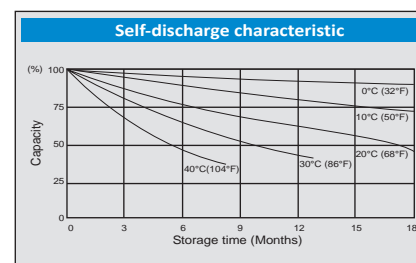
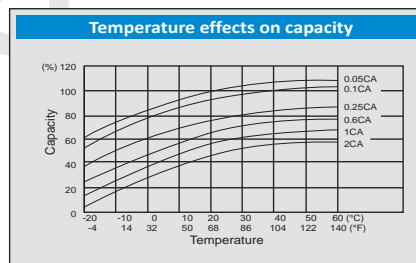
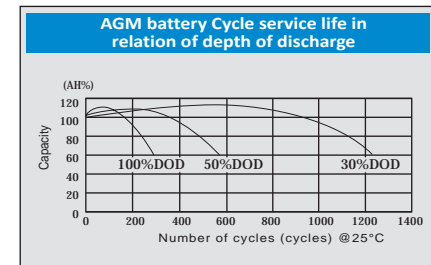
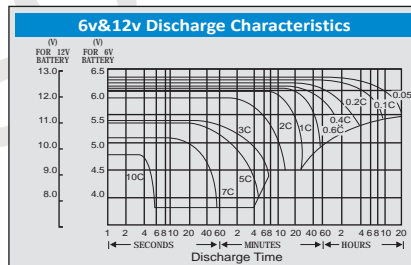
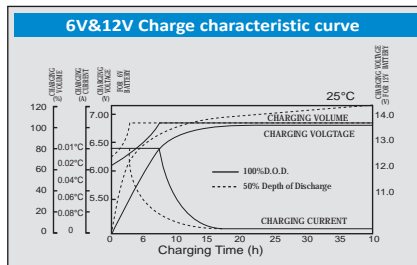
Features

- Maintenance-free without rehydration;
- Internal resistance is small, high rate discharge performance;
- Wide temperature (-35-45);
- Unique recipes, deep discharge recovery performance;
- Non-free electrolytes, lateral 90 degrees has been able to use.
- Low self discharge;
- Long service life (8-10);
- Charging factory, easy to use;
- Safe and explosion-proof;

Battery Model	Specification	Dimension (mm)				Weight Kg±0.5Kg	Capacity(AH)@25°C,1.75V/Cell				
		L±1	W±1	H1±2	H2±2		1HR	3HR	5HR	10HR	20HR
NP55-12-F	55AH-12V	277	106	223	223	18.0	33	41	46	55	58
NP80-12-F	80AH-12V	394	109	286	286	28.0	48	61	68	80	86
NP100-12-F	100AH-12V	394	109	286	286	34.0	60	76	85	100	107
NP120-12-F	120AH-12V	551	109	239	239	38.0	72	90	101	120	128
NP125-12-F	125AH-12V	551	109	288	288	42.0	77	97	115	125	135
NP155-12-F	155AH-12V	551	109	288	288	50.0	97	121	135	150	165



6V /12V Characteristics Graph



GEL Battery (2V, 12V Cell)

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

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
- Manifolded 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 (upside-down is not recommended)
- Recombination reaction (recombinant battery) prevents escape of hydrogen and oxygen gases normally lost in flooded lead-acid batteries



NPFG Series 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
NPFG55-12	55AH-12V	277	106	223	223	18.0	40.4	45.7	51.0	55.0	65.0
NPFG80-12	80AH-12V	394	109	286	286	28.0	57.0	65.0	74.0	80.0	90.0
NPFG100-12	100AH-12V	394	109	286	286	35.5	72.0	81.0	94.0	100.0	111.0
NPFG125-12	125AH-12V	551	109	288	288	42.0	94.0	105.0	115.0	125.0	137.0
NPFG155-12	155AH-12V	551	109	288	288	50.0	113.0	129.0	145.0	155.0	170.0

NPG Series 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 Battery (2v. 12v Cell)

GFM Series (2v. Cell)

Features

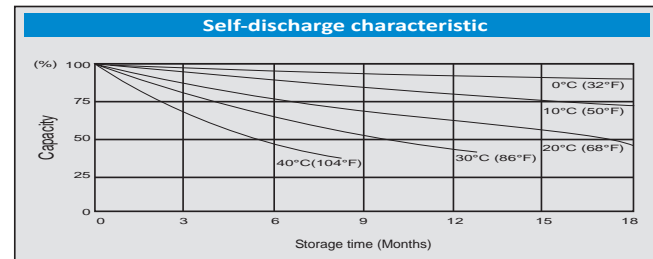
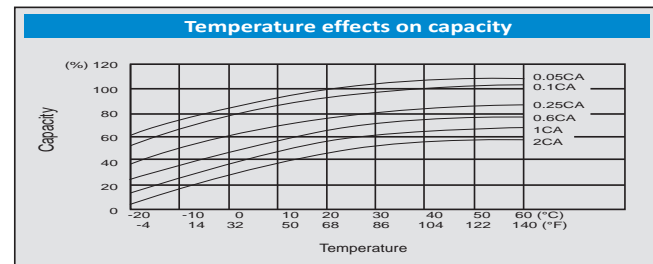
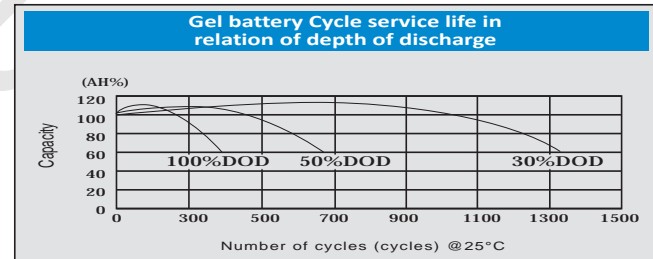
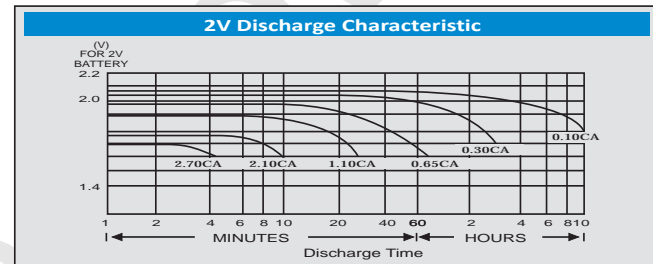
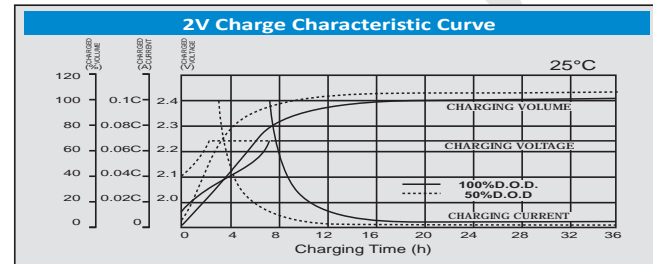
Gel electrolyte, acid-free fluid stratification, plate response uniform, enhancing the reliability of large battery capacity and service life. Minimal maintenance, never needs water

- 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
- Manifolded gassing system

GFM Series 2V 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
GFM50-2	50AH-2V	50.0	27.5	161	275	33	140	155	180	200	220
GFM100-2	100AH-2V	100.0	55.0	171	168	5.8	12.5	13.5	15	16	18.2
GFM150-2	150AH-2V	150.0	82.5	172	176	10.0	19.0	21	24	26	29
GFM200-2	200AH-2V	200.0	110.0	173	151	11.0	22	24	28	31	35
GFM300-2	300AH-2V	300.0	165.0	171	170	14.8	29	32	36	40	44
GFM400-2	400AH-2V	400.0	220.0	211	214	19.0	39	42	50	55	60
GFM450-2	450AH-2V	450.0	247.5	223	214	25.5	50	54	65	70	76
GFM500-2	500AH-2V	500.0	275.0	241	214	26.5	55	60	70	80	85
GFM600-2	600AH-2V	600.0	330.0	301	214	30.5	54	70	81	90	100
GFM700-2	700AH-2V	700.0	385.0	301	214	32.5	70	75	90	99	105
GFM800-2	800AH-2V	800.0	440.0	410	217	34.0	78	85	102	110	120
GFM1000-2	1000AH-2V	1000.0	550.0	475	217	36.0	88	95	110	120	130
GFM1200-2	1200AH-2V	1200.0	660.0	475	281	42.5	83	90	120	135	140
GFM1250-2	1250AH-2V	1250.0	687.5	475	238	48.5	106	115	135	150	160
GFM1500-2	1500AH-2V	1500.0	825.0	471	223	66.0	140	155	180	200	220
GFM2000-2	2000AH-2V	2000.0	1100.0	491	220	80.5	165	180	220	240	260
GFM3000-2	3000AH-2V	3000.0	1650.0	712							

GEL 2V / 12V Characteristic Battery Charts



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