



## CATALOGUE

MOTIVE . RESERVE . AUTOMOTIVE . CHARGER . LITHIUM . BATTERY PACKS . CONSUMER

Your distributor:



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Q-Batteries is a quality brand with the highest standards for its products. With the production of our lead batteries on the most modern production lines, we offer an extremely high standard of quality at an outstanding price-performance ratio.

Q-Batteries offers a tailored range of products for almost any application.

Battery	Application												
	standard	cyclic	starter	UPS	solar + wind energy	forklift	floor cleaning	lifting platform	mobility	marine / RV	Golf Car	car	Golfcaddy
AGM standard	x			x	x								
AGM front terminal	x			x	x								
AGM high rate	x			x									
OGi	x			x									
OPzS	x			x	x	x							
OPzV	x			x	x	x							
LC / LCP		x			x	x				x	x		
GEL		x				x	x	x		x	x		
SEM		x				x		x		x	x		
DC		x					x		x				
TTB		x				x		x	x		x		
AGM Starter			x							x		x	
YB / YT			x										x
Lithium (Golf Akku)													x
Lithium (LiFePO4)					x		x		x	x			

## RESERVE POWER:

The category Q-Batteries RESERVE POWER includes stationary battery types that are for emergency power supply in UPS systems and in security and fire alarm systems. Q-Batteries also provides efficient products for storage in wind and solar applications.

Type	Technology	vented low maintenance	sealed maintenance-free	VdS	Design-Life	Taric
LS	Grid plate, AGM		x	partially	5 y. (<26Ah); 10 y. (>26Ah)	8507 2080 90 0
LSX	Grid plate, AGM		x		10 years	8507 2080 90 0
LFT	Grid plate, AGM		x		10 years	8507 2080 90 0
LH	Grid plate, AGM		x		5 years	8507 2080 90 0
OGi	Grid plate, Acid	x			15 years	8507 2020 90 0
OPzS	Tubular plate, Acid	x			20 y. (2V), 18 y. (6V, 12V)	8507 2020 90 0
OPzV	Tubular plate, Gel		x		>15 years	8507 2080 90 0

## MOTIVE POWER:

The category Q-Batteries MOTIVE POWER comprises different product lines of traction batteries.

The different technologies are designed for cyclic applications such as cleaning machines, lifting platforms, automated guided vehicles, forklifts, trucks, marine/RV, golf cars, electric vehicles, wheelchairs and more.

Type	Technology	vented low maintenance	sealed maintenance-free	cyclic endurance	discharge capacity	Taric
LC / LCP	Grid plate, AGM		x	450-550	75%	8507 2080 90 0
GEL	Grid plate, Gel		x	700	75%	8507 2080 90 0
DC	strengthened Grid plate, Acid	x		1200	50%	8507 2020 90 0
SEM	Grid plate, Acid	x	x	300-350	75%	8507 2020 90 0
TTB	Tubular plate, Acid	x		1200-1500	75%	8507 2020 90 0
Forklift batteries	Tubular plate, Acid	x				8507 2020 90 0
Forklift batteries	Tubular plate, Gel		x			8507 2080 90 0

## AUTOMOTIVE POWER:

The starter batteries in the AUTOMOTIVE POWER category are designed for the demands of modern vehicles. Excellent cold cranking performance and reliability are a key feature of these batteries.

Type	Technology	closed maintenance	sealed maintenance-free	Taric
AGM Starter	Grid plate, AGM		x	8507 1080 90 0
Motorcycle	Grid plate, Acid	x		8507 1020 90 0
Motorcycle	Grid plate, AGM		x	8507 1080 90 0

## LITHIUM POWER:

The starter batteries in the Lithium Power category will be delivered incl. fitting battery charger, cables and bag. The lithium cells have a limited weight and compact dimensions, which makes them ideal for use in golf trolleys.

Type	Technology	closed maintenance	sealed maintenance-free	Taric
Lithium Golf Akku	Lithium		x	8507 6000 90 0
Lithium LiFePO4	Lithium		x	8507 6000 90 0

# AGM standard

## LS series



RESERVE POWER



The valve-regulated and maintenance-free AGM batteries (Absorbent Glass Mat Technology) of the Q-Batteries LS series were developed especially for standby applications, such as in security systems, fire alarm systems and uninterruptible power supplies (UPS).

These batteries are distinguished by their excellent energy storage properties and high reliability.

For all relevant sizes our batteries have a VdS approval.

### Application:

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

### Features:

- 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 5 years (to 26Ah) and 10 year (as of 33Ah)

# AGM standard LS series

## Types:

Order number	Model	Tech-nology	Volt	Ah	Length (mm)	Width (mm)	Height (mm)	Height max.	Weight (kg) +/-3%	Design lifetime	VdS	Terminal
12296	6LS-4.5	AGM	6	4,5	70	47	100	106	0,81	5 years		F1 (4,75mm)
12297	6LS-7.2	AGM	6	7,2	151	34	94	100	1,15	5 years		F1 (4,75mm)
12315	6LS-12	AGM	6	12	151	51	94	100	2,00	5 years	G112071	F2 (6,35mm)
9879602	12LS-0.8	AGM	12	0,8	96	25	62	62	0,50	5 years		JST
9879763	12LS-0.8	AGM	12	0,8	96	25	62	62	0,50	5 years		AMP
9879764	12LS-0.8	AGM	12	0,8	96	25	62	62	0,50	5 years		Molex
724	12LS-1,2	AGM	12	1,2	97	43	52	58	0,54	5 years	G112106	F1 (4,75mm)
400782	12LS-2,1	AGM	12	2,3	178	35	60	67	1,00	5 years	G112107	F1 (4,75mm)
400609	12LS-2,9	AGM	12	2,9	79	56	99	106	1,05	5 years		F1 (4,75mm)
400607	12LS-3,4	AGM	12	3,4	134	67	60,5	67	1,35	5 years	G112069	F1 (4,75mm)
400044	12LS-4,5	AGM	12	4,5	90	70	101	107	1,40	5 years		F1 (4,75mm)
400786	12LS-7,2	AGM	12	7,2	151	65	94	100	2,50	5 years	G112070	F1 (4,75mm)
400698	12LS-7,2	AGM	12	7,2	151	65	94	100	2,50	5 years	G112070	F2 (6,35mm)
728	12LS-12	AGM	12	12	151	98	95	100	3,60	5 years	G112072	F1 (4,75mm)
729	12LS-12	AGM	12	12	151	98	95	100	3,60	5 years	G112072	F2 (6,35mm)
730	12LS-17	AGM	12	17	181	77	167	167	5,70	5 years	G112073	F13 (M5)
731	12LS-18	AGM	12	18	181	77	167	167	5,70	5 years	G112074	F3 (Flag)
732	12LS-24	AGM	12	24	165	176	125	125	7,90	5 years	G112075	F13 (M5)
733	12LS-26	AGM	12	26	165	176	125	125	8,00	5 years	G112076	F13 (M5)
716	12LS-33	AGM	12	35	195	130	159	173	10,6	10 years		F11 (M6)
734	12LS-38	AGM	12	38	197	165	170	170	13,2	10 years	G112077	F11 (M6)
736	12LS-45	AGM	12	45	197	165	170	170	14,5	10 years	G112078	F11 (M6)
400608	12LS-55	AGM	12	55	229	138	210	235	18,0	10 years		F11 (M6)
737	12LS-65	AGM	12	65	350	166	179	179	20,8	10 years	G112079	F11 (M6)
715	12LS-75	AGM	12	78	260	169	210	225	23,5	10 years		F11 (M6)
717	12LS-80	AGM	12	82	350	167	180	180	24,0	10 years		F11 (M6)
9879963	12LS-90	AGM	12	90	306	169	211	214	29,5	10 years		F11 (M6)
714	12LS-100	AGM	12	107	328	172	222	233	30,0	10 years		F12 (M8)
718	12LS-120S	AGM	12	118	328	177	222	233	32,0	10 years		F12 (M8)
9879561	12LS-120	AGM	12	128	409	176	222	225	32,0	10 years		F12 (M8)
453000	12LS-150	AGM	12	158	483	170	240	240	44,5	10 years		F12 (M8)
453001	12LS-200	AGM	12	208	522	240	223	240	60,0	10 years		F12 (M8)
9879964	12LS-250	AGM	12	250	521	268	220	223	77,0	10 years		F12 (M8)

For the installation of the standard batteries we offer rigid and flexible connectors in different sizes (page 15).



# AGM long life

## LSX series



RESERVE POWER



Q-Batteries LSX series meets the requirements for an increased lifetime. The valve-regulated and maintenance-free AGM lead-acid batteries (Absorbent Glass Mat Technology) have a design lifetime of 10 years for all types.

### Application:

- Alarm systems
- UPS-systems
- fire-detection-systems
- telecommunication-systems
- IT systems and more

### Features:

- 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

### Types:

Order number	Model	Technology	Volt	Ah	Length (mm)	Width (mm)	Height (mm)	Height maximal	Weight (kg) +/-3%	Design lifetime	Terminal
1005836	12LSX-7	AGM	12	7	151	65	94	100	2,30	10 years	F1 (4,75 mm)
1005837	12LSX-7.5	AGM	12	7,5	151	65	94	100	2,30	10 years	F2 (6,35 mm)
1005837	12LSX-9	AGM	12	8,8	151	65	94	100	2,60	10 years	F2 (6,35 mm)
1005837	12LSX-12	AGM	12	12	151	98	95	101	3,76	10 years	F2 (6,35 mm)
1005838	12LSX-17	AGM	12	17	181	77	167	167	5,50	10 years	F13 (M5)
1005839	12LSX-24	AGM	12	24	166	175	125	125	8,10	10 years	F13 (M5)
1005840	12LSX-28	AGM	12	28	165	125	175	175	9,30	10 years	F13 (M5)



# AGM front terminal LFT series



The Q-Batteries LFT series provides batteries for UPS power cabinets requiring front terminals for easy maintenance.

## Application:

- Alarm systems
- UPS-systems
- fire-detection-systems
- telecommunication-systems
- IT systems and more

## Features:

- 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
- Connection poles for front mounting in e.g. modular cabinets.

## Types:

Order number	Model	Technology	Volt	Ah	Length (mm)	Width (mm)	Height (mm)	Height maximal	Weight (kg) +/-3%	Type	Terminal
722	12LFT-55	AGM	12	57	277	106	222	222	18,0	front terminal	F11 (M6)
719	12LFT-105	AGM	12	108	508	111	236	236	32,5	front terminal	F12 (M8)
720	12LFT-150	AGM	12	150	551	110	288	288	45,0	front terminal	F12 (M8)

# AGM high rate LH series



The Q-Batteries LH series is designed for high rate applications, high power backup supply and emergency power supply, where long life and peak performance is required.

## Application:

- UPS-systems
- fire-detection-systems
- IT systems and more

## Features:

- 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 5 years

## Types:

Order number	Model	Technology	Volt	W (15Min/1,65V)	Ah (20h)	Length (mm)	Width (mm)	Height (mm)	Height max.	Weight (kg) +/-3%	Type	Terminal
400117	12LH-30W	AGM	12	22,2	5	90	70	101	107	1,65	high rate	F2 (6,35 mm)
400046	12LH-36W	AGM	12	35,7	9	151	65	93,5	100	2,63	high rate	F2 (6,35 mm)
9883108	12LH-55W	AGM	12	55	12	151	98	95	101	3,80	high rate	F2 (6,35 mm)
400118	12LH-80W	AGM	12	83,5	20	181	77	167	167	5,90	high rate	F3 (Flag)

# Stationary grid plate batteries

## OGi series

RESERVE POWER



The Q-Batteries OGi series is characterised by a wide performance spectrum.

The vented stationary batteries can be used for high-current discharge of short duration, but also for long discharge periods.

OGi batteries provide a consistent operating reliability in addition to high lifetime expectancy and are ideally suited for the use of uninterruptible power supplies (UPS), emergency power supply, industrial applications and for DC power supply systems in power stations.

The expected design life is 15 years at a temperature of 20 °C.

### Application:

- UPS-systems
- Railway signalling systems
- Industrial applications
- IT systems
- DC power supply systems

### Features:

- Low maintenance due to optimized alloy and high electrolyte reserve
- comfortable electrolyte level check due to the translucent container
- low self discharge, approx 3% per month
- for high current applications as well as term cycling operations
- design lifetime of 15 years

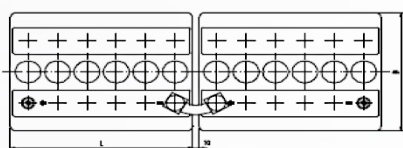
# Stationary grid plate batteries

## OGi series

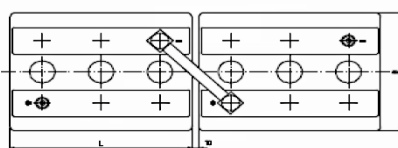
Types:

Order number	Model	Technology	Volt	Ah(10h)	Ah(5h)	Ah(3h)	Ah(1h)	Ah(1/2)	Ah(1/6)	Ah(1/12)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%
				1,8VPC	1,75VPC	1,75VPC	1,7 VPC	1,65VPC	1,65VPC	1,6VPC				
1005873	2V 3 OGi 75	Acid	2	80	74	67	49	42	27	19	103	206	420	9,10
1005874	2V 4 OGi 100	Acid	2	105	98	89	65	56	36	26	103	206	420	10,0
1005875	2V 5 OGi 125	Acid	2	135	123	111	81	69	44	31	103	206	420	10,9
1005876	2V 6 OGi 150	Acid	2	165	148	133	98	82	52	37	103	206	420	11,8
1005877	2V 7 OGi 175	Acid	2	187	167	151	110	91	56	39	103	206	420	12,6
1005878	2V 8 OGi 200	Acid	2	228	197	178	130	108	67	46	103	206	420	13,4
1005879	2V 9 OGi 225	Acid	2	254	221	200	145	121	75	52	103	206	420	14,2
1005880	2V 10 OGi 250	Acid	2	270	247	223	161	133	80	55	126	206	420	14,3
1005881	2V 11 OGi 275	Acid	2	304	271	245	177	146	88	60	145	206	420	16,1
1005882	2V 12 OGi 300	Acid	2	320	296	268	194	159	96	66	145	206	420	17,5
1005883	2V 24 OGi 600	Acid	2	684	592	536	390	324	201	140	205	272	392	41,9
1005884	2V 30 OGi 750	Acid	2	810	741	670	485	399	241	165	205	380	392	55,7
1005885	2V 36 OGi 900	Acid	2	960	888	804	583	478	289	198	205	380	392	63,0
1005867	6V 7 OGi 175	Acid	6	232	204	176	131	107	69	49	275	208	385	43,4
1005868	6V 8 OGi 200	Acid	6	248	224	194	145	119	78	56	275	208	385	45,7
1005869	6V 9 OGi 225	Acid	6	261	242	210	157	130	87	63	275	208	385	48,5
1005870	6V 10 OGi 250	Acid	6	332	292	253	188	154	98	70	383	208	385	59,9
1005871	6V 11 OGi 275	Acid	6	366	321	278	206	169	108	77	383	208	385	62,8
1005872	6V 12 OGi 300	Acid	6	374	337	293	218	179	117	84	383	208	385	65,6
1005861	12V 1 OGi 25	Acid	12	33	29	25	19	15	10	7	275	208	385	30,3
1005862	12V 2 OGi 50	Acid	12	66	58	50	37	30	19	14	275	208	385	35,8
1005863	12V 3 OGi 75	Acid	12	93	84	72	54	45	29	21	275	208	385	41,2
1005864	12V 4 OGi 100	Acid	12	115	107	93	69	58	39	28	275	208	385	46,6
1005865	12V 5 OGi 125	Acid	12	154	140	121	90	74	49	35	383	208	385	60,9
1005866	12V 6 OGi 150	Acid	12	173	161	140	104	87	58	42	383	208	385	67,6

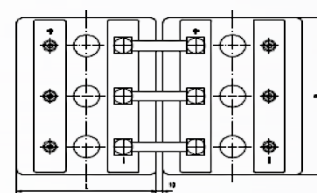
Connection options:



12V 1 OGi 25  
to 12V 6 OGi 150



6V 7 OGi 175  
to 6V 12 OGi 300



2V 24 OGi 600  
to 2V 36 OGi 900

RESERVE POWER



# Stationary tubular plate batteries

## OPzS series

RESERVE POWER



The stationary Q-Batteries OPzS series is intended for the supply of telecommunications, industry, hospitals, public facilities and railways where high reliability and operational safety is required.

The vented stationary OPzS batteries with tubular plates technology offer an high lifetime expectancy of more than 1500 cycles. Thus, the batteries can be used both for standby power supply as well as for applications with frequent discharge and charge, such as in solar applications.

### Application:

- power plants
- control and monitoring systems
- telecommunication
- UPS
- airports and railway stations
- solar and wind power

### Features:

- vented, low maintenance battery
- comfortable electrolyte level check due to the translucent container
- low self discharge, < 3% per month
- for high current applications as well long term cycling operations
- for standby power supply as well as for cycling appliances
- design lifetime of 20 years (2V), 18 years (6V, 12V)

# Stationary tubular plate batteries

## OPzS series

Types (blocs incl. ceramic plugs):

Order number	Model	Technology	Volt	Ah (10h)	Ah (5h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%
1005822	6V 3 OPzS 150	Acid	6	161	138	272	205	347	48,0
1005823	6V 4 OPzS 200	Acid	6	215	183	272	205	347	49,0
1005824	6V 5 OPzS 250	Acid	6	268	230	380	205	347	59,0
1005825	6V 6 OPzS 300	Acid	6	322	275	380	205	347	67,0
1005819	12V 1 OPzS 50	Acid	12	54	46	272	205	347	39,0
1005820	12V 2 OPzS 100	Acid	12	107	92	272	205	347	50,0
1005821	12V 3 OPzS 150	Acid	12	161	138	380	205	347	70,0

Types (single cells incl. ceramic plugs):

Order number	Model	Technology	Volt	Ah (10h)	Ah (5h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%
1005799	2 OPzS 100	Acid	2	107	92	103	206	369	11,0
1005800	3 OPzS 150	Acid	2	161	138	103	206	369	16,0
1005801	4 OPzS 200	Acid	2	215	183	103	206	369	18,0
1005802	5 OPzS 250	Acid	2	268	230	124	206	369	22,0
1005803	6 OPzS 300	Acid	2	322	275	145	206	369	26,0
1005804	5 OPzS 350	Acid	2	388	333	124	206	485	29,0
1005805	6 OPzS 420	Acid	2	465	400	145	206	485	34,0
1005806	7 OPzS 490	Acid	2	542	466	166	206	485	39,0
1005807	6 OPzS 600	Acid	2	656	566	145	206	660	50,0
1005808	8 OPzS 800	Acid	2	875	756	210	191	660	65,0
1005809	10 OPzS 1000	Acid	2	1093	945	210	233	660	80,0
1005810	12 OPzS 1200	Acid	2	1312	1134	210	275	660	93,0
1005811	12 OPzS 1500	Acid	2	1670	1457	210	275	810	119,0
1005812	16 OPzS 2000	Acid	2	2227	1943	212	397	792	152,0
1005813	20 OPzS 2500	Acid	2	2783	2431	212	487	792	200,0
1005814	24 OPzS 3000	Acid	2	3340	2918	212	576	792	240,0

We recommend to use recombination system to reduce the number of water refill procedures to a minimum.

Recombination plugs:

Bestellnummer	Model
1005815	Q-Batteries recombination plug up to 500Ah
1005816	Q-Batteries recombination plug from 501Ah up

# Stationary tubular plate gel batteries

## OPzV series



The Q-Batteries OPzV series combines the advantages of the tubular plate technology with the advantages of valve-regulated gel technology. The result is a maintenance-free battery series which can be used for standby operation, but at the same time this series shows a very high cycle stability. Therefore, the battery is suitable for stationary applications such as in the fields of IT / telecommunications and emergency lighting as well as sectors with high charge and discharge operation.

### Application:

- power plants
- control and monitoring systems
- telecommunication
- UPS
- solar and wind power

### Features:

- maintenance free (no watering)
- Valve Regulated Lead Acid (VRLA)
- fixing of the electrolyte as gel
- low self discharge, approx 2% per month
- excellent cycle stability (1200 cycles according to IEC 896-1)
- design lifetime of more than 15 years

### Types:

Order number	Model	Technology	Volt	Ah(10h)	Ah(5h)	Ah(3h)	Ah(1h)	Length (mm)	Width (mm)	Height (mm)	Height max. (mm)	Weight (kg) +/-3%
1005847	4 OPzV 200	Gel	2	204	172	150	106	103	206	354	380	19,0
1005848	5 OPzV 250	Gel	2	255	215	188	133	124	206	354	380	23,0
1005849	6 OPzV 300	Gel	2	306	258	225	159	145	206	354	380	28,0
1005850	5 OPzV 350	Gel	2	357	300	263	185	124	206	471	496	31,0
1005851	6 OPzV 420	Gel	2	429	360	315	222	145	206	471	496	36,0
1005852	7 OPzV 490	Gel	2	500	420	368	259	166	206	471	496	41,0
1005853	6 OPzV 600	Gel	2	612	516	450	312	145	206	643	668	49,0
1005854	8 OPzV 800	Gel	2	816	688	600	416	210	191	644	669	65,0
1005855	10 OPzV 1000	Gel	2	1020	860	750	520	210	233	646	671	80,0
1005856	12 OPzV 1200	Gel	2	1251	1032	900	624	210	275	645	670	93,0
1005857	12 OPzV 1500	Gel	2	1530	1260	1116	744	210	275	796	821	115,0
1005858	16 OPzV 2000	Gel	2	2040	1680	1488	992	214	399	771	796	155,0
1005859	20 OPzV 2500	Gel	2	2550	2100	1860	1240	214	487	769	794	200,0
1005860	24 OPzV 3000	Gel	2	3060	2520	2232	1488	214	576	771	796	235,0
9877444	4 OPzV 200	Gel	6	206	190	169	117	272	205	332	371	48,0
9877445	5 OPzV 250	Gel	6	257	237	211	146	380	205	332	371	63,0
9877446	6 OPzV 300	Gel	6	309	285	253	173	380	205	332	371	70,0
9877447	1 OPzV 50	Gel	12	51	47	42	30	272	205	332	371	43,0
9877448	2 OPzV 100	Gel	12	102	94	84	59	272	205	332	371	52,0
9877449	3 OPzV 150	Gel	12	153	141	126	88	380	205	332	371	72,0











# Accessories

## for stationary batteries



To connect several single cells we offer connectors and cable sets. By request we could manufacture different length, cross section and cable types.

	Model	Description
	Flexible connectors	Flex-connectors with 2,5mm <sup>2</sup> , 6mm <sup>2</sup> , 16mm <sup>2</sup> , 25mm <sup>2</sup> or 35mm <sup>2</sup> in different sizes and connectors for stationary batteries
	Flexible connector sets	Cable set for UPS systems 3 floors. Double row with the cross sections 2,5mm, 6mm, 16mm, 25mm or 35mm
	Rigid connectors	rigid connectors for Q-Batteries AGM LS series, LSX series and LH series
	terminal caps	terminal caps for flex-connectors up to 25 mm <sup>2</sup> / M6 terminal caps for flex-connectors up to 35 mm <sup>2</sup> / M8 terminal caps for rigid connectors up to 17 mm terminal caps for rigid connectors up to 20 mm
	Adapter M5 to F2	(2 pieces) M5 to 6,3mm plug
	Adapter M6 to F2	(2 pieces) M6 to 6,3mm plug
	Faston adapter set	(2 pieces) 4,8mm socket to 6,3mm plug
	Faston adapter set	(2 pieces) 6,3mm socket to 4,8mm plug

# AGM deep cycle battery

LC series / LCP series



MOTIVE POWER



The Q-Batteries LC series and LCP series with AGM technology (Absorbent Glass Mat) is designed for intensive cyclic discharge usage. The internal resistance of AGM batteries is significantly lower compared to gel batteries, allowing them to provide greater amounts of electricity to the consumer if necessary. By using special lead plates and an electrolyte, the battery is excellent in durability and cycle stability.

## Application:

- HME / mobility
- Marine / RV
- Wind power
- Solar / Off Grid Applications

## Features:

- Absorbent Glass Mat Technology (AGM)
- maintenance free (no watering)
- Valve Regulated Lead Acid (VRLA)
- low self discharge, < 3% per year
- long lifetime expectancy
- low internal resistance
- 450 – 500 cycles (75% DOD)

# AGM deep cycle battery

## LC series / LCP series

Types:

Order number	Model	Technology	Volt	Ah (20h)	Length (mm)	Width (mm)	Height (mm)	Height max.	Weight (kg) +/-3%	Type	Terminal
632	12LCP-9	AGM	12	9	151	65	94	100	2,55	Cyclic	F1
633	12LCP-12	AGM	12	13	151	98	95	101	4,20	Cyclic	F2
634	12LCP-15	AGM	12	15	151	98	99	105	4,50	Cyclic	F2
635	12LCP-19	AGM	12	19	181	77	167	167	5,70	Cyclic	F3
636	12LCP-23	AGM	12	23	181	77	167	167	6,00	Cyclic	F3
1005957	12LCP-23	AGM	12	23	181	77	167	167	6,00	Cyclic	F13
637	12LCP-30	AGM	12	30	166	175	125	125	9,00	Cyclic	F13
638	12LCP-36	AGM	12	36	195	130	163	180	10,2	Cyclic	F11
639	12LCP-50	AGM	12	50	198	166	171	171	14,6	Cyclic	F11
640	12LCP-56	AGM	12	56	229	138	210	235	18,0	Cyclic	F11
721	12LCP-60	AGM	12	63	260	168	178	183	20,0	Cyclic	F11
641	12LC-67	AGM	12	67	350	167	180	183	21,0	Cyclic	F11
642	12LC-75	AGM	12	77	260	169	210	235	23,5	Cyclic	F11
643	12LC-80	AGM	12	80	350	167	180	183	24,0	Cyclic	F11
644	12LC-92	AGM	12	93	306,5	168,5	211	235	28,5	Cyclic	F12
645	12LC-100	AGM	12	107	328	172	222	222	30,0	Cyclic	F12
646	12LC-130	AGM	12	128	407	177	225	225	35,0	Cyclic	F12
647	12LC-134	AGM	12	143	340	173	280	285	41,5	Cyclic	F12
648	12LC-150	AGM	12	160	483	170	240	240	44,5	Cyclic	F12
649	12LC-180	AGM	12	193	530	209	214	214	53,0	Cyclic	F12
650	12LC-200	AGM	12	214	522	240	219	224	60,0	Cyclic	F12
651	12LC-225	AGM	12	243	522	240	223	223	65,0	Cyclic	F14
652	12LC-260	AGM	12	278	520	268	220	225	74,0	Cyclic	F14

For installation we offer different types of battery connectors and cable sets (page 26).



# Gel traction batteries

## GEL series



The Q-Batteries GEL series is especially suitable for extreme industrial applications. Even in particularly-demanding applications such as in cleaning machines, these batteries perform exceptionally due to their high number of cycles and long life.

Sealed GEL batteries are maintenance free regarding water refilling. The increased use of precious raw material lead is an essential quality of this series.

### Application:

- floor cleaning
- driverless transport systems
- pallet trucks
- HME / mobility
- scooter
- marine / RV
- solar applications and more

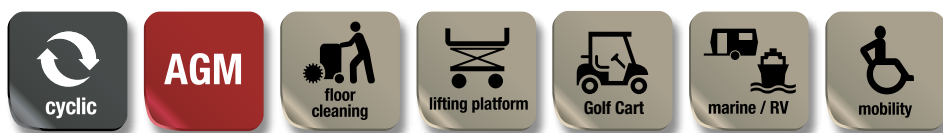
### Features:

- maintenance free (no watering)
- Valve Regulated Lead Acid (VRLA)
- fixing of the electrolyte as gel
- low self discharge, < 3% per year
- high reliability
- excellent energy and storage properties
- 700 cycles (75% DOD)

### Types:

Order number	Model	Technology	Volt	Ah (5h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Terminal	Layout	Base hold down
1005914	6GEL-180	Gel	6	180	242	190	275	34,5	A-Pole	diagonal	B0
1005915	6GEL-240	Gel	6	240	311	181	360	50,6	A-Pole	diagonal	B0
1005916	6GEL-270	Gel	6	270	311	181	360	54,9	A-Pole	diagonal	B0
1005961	12GEL-51	Gel	12	51	276	175	190	24,0	A-Pole	0	B13
1005911	12GEL-65	Gel	12	65	352	175	190	28,0	A-Pole	0	B13
9880335	12GEL-69	Gel	12	69	250	150	400	37,5	M8	0	B0
1005912	12GEL-70	Gel	12	70	308	175	225	29,3	A-Pole	0	B1
1005913	12GEL-105	Gel	12	105	345	170	285	41,8	A-Pole	0	B0

# AGM traction batteries



The Q-Batteries traction batteries are ideal for demanding applications in cleaning machines, lifting platforms, industrial trucks and other industrial areas. The main advantages are the higher capacity and faster charging compared to gel batteries of comparable types.

## Areas of application:

- Cleaning machines
- Golf carts
- Wheelchairs
- Driverless transport systems
- Working and lifting platforms
- Electric tugs
- Marine / Caravan

## Features:

- maintenance-free according to DIN
- high Cycle stability
- robust construction
- vibration-proof
- long lifetime
- extremely thick grid plates for high performance

Order number	Model	Technology	Volt	Ah (C5)	Ah (C20)	Length (mm)	Width (mm)	Height (mm)	Height max. (mm)	Terminal	Layout	Weight (kg) +/-3%	Pallet quantity
9881722	6AGM-225	AGM	6	188	210	260	180	252	274	LPTA	diagonal	30,4	28
9881720	6AGM-180	AGM	6	198	245	243	187,5	275	275	M8	diagonal	31,5	30
9881723	6AGM-240	AGM	6	230	268	262	180	263	268	LPTA	diagonal	32,9	32
9881721	6AGM-305	AGM	6	296	340	295	180	346	368	LPTA	diagonal	48,2	24
9881724	8AGM-170	AGM	8	148	170	260	180	252	274	LPTA	1	30,8	32
9881718	12AGM-76	AGM	12	97	115	330	173	212	220	M8	0	31,5	36
9881719	12AGM-105	AGM	12	122	145	340,5	172	280	286	M8	0	42,5	24







# Deep cycle battery

## DC series



The DC batteries from the brand Q-Batteries are special deep cycle batteries which are designed for intensive cyclic discharge usage. Because of the very thick lead plates it's possible to achieve more cycles and longer lifetime.

### Application:

- golf cart
- vehicle lifts
- forklifts

### Features:

- vented, low maintenance battery
- low self discharge, approx 5% per month
- 1200 cycles (50% DOD)

### Types:

Order number	Model	Technology	Volt	Ah (20h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Type	Terminal
12307	6DC-210	Acid	6	210	260	180	275	26,5	Cyclic	Dual Fit
12308	6DC-225	Acid	6	225	260	180	275	28,6	Cyclic	Dual Fit
12309	6DC-240	Acid	6	240	260	180	275	30,7	Cyclic	Dual Fit
12310	6DC-260	Acid	6	260	260	180	295	33,0	Cyclic	Dual Fit
12305	6DC-330	Acid	6	330	295	180	365	42,7	Cyclic	AP
12311	8DC-170	Acid	8	170	260	180	275	29,0	Cyclic	ET
12313	12DC-150	Acid	12	150	328	180	276	37,5	Cyclic	ET

### Accessories:

For the DC series, we offer an aquamatic system 24V, 36V and 48V for the safe and time-saving filling of your batteries. In addition we also offer water tank (incl. drain cock, flow indicator, filter, tube and coupling – page 25).

# Semitraction battery

## SEM series



The Q-Batteries SEM series is designed to give power over sustained periods of time. The batteries are suitable for low self-discharge cyclic applications.

### Application:

- battery electric vehicles
- Marine / RV
- caravanning
- floor cleaning
- wheelchair
- solar applications and more

### Features:

- vented, low maintenance battery
- easy acid regulation
- high discharge capacity
- 300 – 350 cycles (75% DOD)

### Types:

Order number	Model	Technology	Volt	Ah (20h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Terminal	Layout	Base hold down
1005831	6SEM-230	Acid	6	230	242	190	274	32,0	A-Pole	diagonal	B0
1005832	12SEM-60	Acid	12	60	246	175	190	17,0	A-Pole	0	B13
1005833	12SEM-80	Acid	12	80	278	175	190	19,5	A-Pole	0	B13
1005834	12SEM-105	Acid	12	105	353	175	190	25,0	A-Pole	0	B13
1005842	12SEM-120	Acid	12	120	347	175	234	29,9	A-Pole	0	B0
1005843	12SEM-135	Acid	12	135	349	175	290	37,8	A-Pole	0	B0
1005846	12SEM-137	Acid	12	137	513	189	223	37,4	A-Pole	3	B0
1005844	12SEM-180	Acid	12	180	513	224	225	48,6	A-Pole	3	B0
1005845	12SEM-225	Acid	12	225	518	276	242	62,0	A-Pole	3	B0

# Tubular plate batteries

## TTB series



**MOTIVE POWER**



The lead acid batteries of Q-Batteries product line TTB are vented traction batteries with positive tubular plates, also known as tubular plate technology. The tubular plate batteries are built to deliver superior performance in cleaning machines, mobile lifting platforms, electric trucks and golf carts even in rough environments conditions. The optional water filling system allows easy and secure compensation for water loss from the batteries.

### Application:

- floor cleaning
- aerial work platform
- driverless transport systems
- pallet trucks
- wheelchairs, scooter
- marine / RV
- solar applications and more

### Features:

- vented, low maintenance battery
- excellent run time and cycle life
- low self discharge, approx 5% per month
- high reliability of operation
- high discharge capacity
- 1200 – 1500 cycles (75% DOD)

### Types:

Order number	Model	Technology	Volt	Ah (20 h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Terminal	Layout	Base hold down
1005938	6TTB-225EU	Acid	6	225	242	190	275	29,0	A-Pole	diagonal	B0
1005937	6TTB-225US	Acid	6	225	260	180	275	28,2	A-Pole	diagonal	B0
1005940	6TTB-240EU	Acid	6	240	242	190	275	32,1	A-Pole	diagonal	B0
1005939	6TTB-245US	Acid	6	245	260	180	275	34,0	A-Pole	diagonal	B0
1005941	6TTB-290EU	Acid	6	290	311	181	360	45,2	A-Pole	diagonal	B0
1005942	6TTB-310EU	Acid	6	310	311	181	360	47,0	A-Pole	diagonal	B0
1005927	12TTB-65	Acid	12	65	278	175	190	17,7	A-Pole	0 (+Pole right)	B13
1005928	12TTB-90	Acid	12	90	303	175	225	28,3	A-Pole	0 (+Pole right)	B1
1005931	12TTB-115	Acid	12	115	345	173	233	30,0	A-Pole	0 (+Pole right)	B0
1005932	12TTB-130	Acid	12	130	345	173	284	37,3	A-Pole	0 (+Pole right)	B0
1005933	12TTB-165	Acid	12	165	510	175	225	40,0	A-Pole	4 (+Pole right)	B13
1005934	12TTB-175	Acid	12	175	512	223	220	46,4	A-Pole	3 (+Pole left)	B0
1005935	12TTB-210	Acid	12	210	513	218	215	46,0	A-Pole	4 (+Pole right)	B13
1005936	12TTB-240	Acid	12	240	517	270	240	68,0	A-Pole	4 (+Pole right)	B13



# Forklift batteries

## PzS, PzB, PzV series



Q-Batteries provides a huge range of forklift batteries. The PzS and the PzB cells are wet tubular batteries whereas the PzV range is valve regulated and uses a gel-technology, all types achieve a high cycle capacity. The different types provide a voltage range from 24, 36, 48 and 80V and a capacity up to 1500Ah. The cells are manufactured in European production according to DIN EN ISO 9001 certified.

### Application:

- forklifts
- floor cleaning
- lifting platforms

### Types:

- PzS: vented tubular batteries with liquid electrolyte
- PzB: correspond to PzS with British dimensions
- PzV: maintenance-free, sealed valve regulated gel tubular battery

### Your way to a new forklift battery:

We have a fast-moving stock level with the most common forklift battery references. In more than 80% of the Q-batteries forklift range we can deliver upon short notice. To deliver the right battery we need to know the voltage, capacity and the dimensions of the tray and your desired battery-type.



To your offer:

You tell us the voltage, capacity, dimensions the battery-type and we will send you an offer.



By request we deliver also spare parts like plugs, socket, coupling and handles as well as chargers, demineralized water preparation and electrolyte circulation systems.



Installation:

You could install the battery on your own or we will organize it for you.



Your old battery will be collected and completely recycled. Since the battery is collected, you will receive a credit note for your old battery.

# Forklift batteries

## PzS, PzB, PzV series

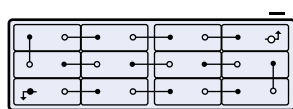
### Forklift catalog:

We created a forklift catalog so that you could find the suitable battery for your forklift easily.

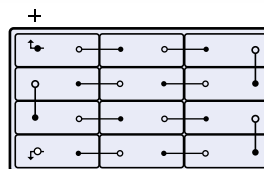


In the following, you will find an extract of our most common PzS- and PzB forklift batteries. All PzS and PzV cells have a standard width of 198mm. PzB cells have a width of 157,5mm. The nominal capacity is indicated as 5-hours battery capacity (C5). All Q-Batteries forklift batteries are delivered with aquamatic in color RAL 7021. Additional capacities and sizes as well as gel tubular plates are available.

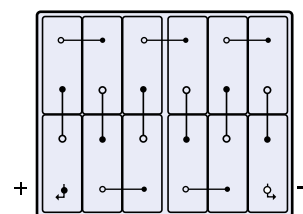
### Layout:



Layout 24V DIN A



Layout 24V DIN B



Layout 24V DIN C

### Types:

Order number	Model	Technology	Volt	Ah (5h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Layout DIN	Tray number
1005766	2 PzB 130	Acid	24	130	650	145	560	140		57034107
1005753	2 PzB 150	Acid	24	150	648	156	595	153		57304033
1005768	2 PzB 150	Acid	24	150	650	145	560	152		57034107
1005734	2 PzB 150	Acid	24	150	660	146	590	154		57034165
1005749	2 PzB 200	Acid	24	200	660	146	682	185		57034113
9877063	2 PzB 200	Acid	24	200	762	171	687	195		57304032
1005756	3 PzB 225	Acid	24	225	645	196	569	213		57314054
1005729	2 PzS 180	Acid	24	180	621	209	537	153	B	57014073
9876726	2 PzS 230	Acid	24	230	827	162	627	200	A	57014021
9876727	2 PzS 230	Acid	24	230	621	209	627	212	B	57014072
9876728	2 PzS 250	Acid	24	250	621	209	627	221	B	57014072
9877409	3 PzS 240	Acid	24	240	823	230	630	227		57034116
1005982	3 PzS 240	Acid	24	240	827	216	462	215	A	57014003

# Forklift batteries

## PzS, PzB, PzV series

Order number	Model	Technology	Volt	Ah (5h)	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Layout DIN	Tray number
1005704	3 PzS 270	Acid	24	270	621	281	537	249	B	57014122
9876733	3 PzS 345	Acid	24	345	827	216	627	292	A	57014022
1005740	3 PzS 345	Acid	24	345	621	281	627	286	B	57014023
1005719	3 PzS 375	Acid	24	375	827	216	627	308	A	57014022
1005698	3 PzS 375	Acid	24	375	621	281	627	301	B	57014023
1005758	4 PzS 240	Acid	24	240	622	353	402	230	B	57014087
1005732	4 PzS 320	Acid	24	320	519	421	462	230	C	57014006
1005728	4 PzS 620	Acid	24	620	625	353	784	419	B	57014178
1005731	5 PzS 575	Acid	24	575	827	324	627	447	A	57014028
1005730	5 PzS 625	Acid	24	625	827	324	627	407	A	57014028
9876735	6 PzS 690	Acid	24	690	827	378	627	535	A	57014031
9877309	6 PzS 750	Acid	24	750	827	378	627	568	A	57014031
9876736	7 PzS 805	Acid	24	805	827	432	627	613	A	57014034
9877064	7 PzS 875	Acid	24	875	827	432	627	653	A	57014034
9876619	8 PzS 1000	Acid	24	1000	827	486	627	738	A	57014037
1005726	8 PzS 920	Acid	24	920	827	486	627	700	A	57014037
9876739	3 PzS 375	Acid	48	375	827	411	627	579	A	57017075
9876749	3 PzS 465	Acid	48	465	1035	353	784	772	B	57017037
9876737	4 PzS 460	Acid	48	460	827	519	627	704	A	57017076
1005986	4 PzS 500	Acid	48	500	827	519	627	731	A	57017076
1005708	4 PzS 620	Acid	48	620	1220	352	784	838	C	57017091
1005709	4 PzS 620	Acid	48	620	1220	352	784	955	C	57017091
1005987	5 PzS 575	Acid	48	575	827	627	627	872	A	57017077
1005701	5 PzS 625	Acid	48	625	827	627	627	897	A	57017077
1005702	5 PzS 625	Acid	48	625	1027	526	627	902	B	57017033
1005712	5 PzS 700	Acid	48	700	832	631	784	991	A	57017039
1005710	5 PzS 775	Acid	48	775	832	631	784	1183	A	57017039
1005707	5 PzS 775	Acid	48	775	1220	424	784	1147	C	57017048
1005717	6 PzS 690	Acid	48	690	827	735	627	1053	A	57017003
1005716	6 PzS 750	Acid	48	750	827	735	627	1022	A	57017003
9876742	4 PzS 460	Acid	80	460	1025	708	627	1210	A	57019017
9876744	4 PzS 500	Acid	80	500	1026	708	627	1223	A	57019017
1005988	4 PzS 560	Acid	80	560	1025	708	784	1450	A	57019023
1005720	4 PzS 620	Acid	80	620	1025	708	784	1605	A	57019023
1005724	5 PzS 625	Acid	80	625	1023	849	627	1542	A	57019018
9876747	5 PzS 700	Acid	80	700	1025	852	784	1863	A	57019024
1005715	5 PzS 775	Acid	80	775	1025	852	784	1945	A	57019024
1005721	6 PzS 930	Acid	80	930	1025	996	784	2290	A	57019070







To connect several single cells we offer connectors and cable sets (page 26).



## Aquamatic & Electrolyte circulation system

### Aquamatic

Wet traction batteries have to be refilled with demineralized water at regular intervals. Automatic refilling systems save time and ensure that every cell has its correct filling status of electrolyte. Therefore, we offer the optional installation of an aquamatic for the Q-Batteries series DC, TTB and forklift batteries (PzS and PzB).








	Model	Description
	9877436	wall bracket for water tank
	9877304	water tank 30l with drain tap, flow indicator with filter, transparent pipe (4m) and pipe jointng
	9877526	water tank 30l and wall bracket as a set
	9880448	water tank with 25l demineralized water and transparent pipe with pipe joint in carton
	9879680	Aquamatic trolley 26l mobile water trolley with pump for filling batteries.
	9879679	Suction pump 6l for sucking off battery acid.

### Electrolyte circulation system

Emerging air bubbles rise through the electrolyte, ensuring a homogeneous electrolyte density distribution in each cell which minimize the charging time and water consumption to reduce costs. Electrolyte circulation systems enlarge the lifetime of traction batteries.

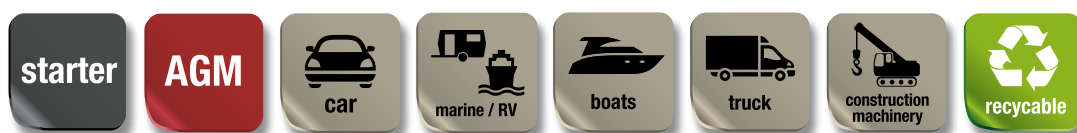
# Accessories for traction batteries

## Connectors

Model		Description					
	Flex connector welded	Diameter	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>
		Length					
		75 mm	x	x	x		
		85 mm	x	x	x		
		95 mm	x	x	x	x	
		110 mm	x	x	x	x	x
		130 mm	x	x	x	x	x
		150 mm	x	x	x	x	x
		170 mm	x	x	x	x	x
		190 mm	x	x	x	x	x
210 mm	x	x	x	x	x		
300 mm	x	x	x	x	x		
	Flex-end Rema industrial connector with welded cable	Diameter	25 mm <sup>2</sup>	35 mm <sup>2</sup>	50 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>
		Length					
		1000 mm	x	x	x	x	x
		1200 mm	x	x	x	x	x
		1500 mm	x	x	x	x	x
		1700 mm				x	x
2000 mm				x	x		
	Terminal bolt M8	Terminal bolt M8 x 22mm with testing point and bolt lock					
	Terminal bolt M10	Terminal bolt M10 x 18mm with testing point and bolt lock					
	Terminal adapter M8 to automotive post	consisting of: 2 screws M8, 2 automotive posts (positive/ negative)					
	Terminal adapter M6 to automotive post	consisting of: 2 screws M6, 2 automotive posts (positive/ negative)					
	Terminal adapter M5 to automotive post	consisting of: 2 screws M5, 2 automotive posts (positive/ negative)					

# Starter and supply batteries

## AGM starter series



These Q-Batteries starter batteries with proven AGM technology are also suitable for on-board supply in motorhomes or boats. In addition to high shock and vibration resistance, these maintenance-free starters are characterised due to a higher cycle capability and are also ideal for use in vehicles with start-stop systems or high energy requirement.

### Applications:

- modern cars with start-stop system
- Tractors, harvester, Unimog
- Construction machinery (dredge, vibrator)
- Taxi, buses & special vehicles
- Special applications with very high power requirements (eg sound systems, TV, independent vehicle heater)
- Caravans, RVs and boats

### Features:

- continuous power
- maximum capacity
- vibration and cycle-proof
- closed (VRLA)
- leak proof
- AGM technology (lead fleece)
- maintenance-free
- low self-discharge

### Types:

Order-number	Model	Type	Volt	Ah	CCA A	Length (mm)	Width (mm)	Height (mm)	Holddown	Terminal	Circuit	Weight (kg) +/-3%
9879975	560 01	AGM	12	60	640	242	175	190	B13	AP	0	18
9879541	570 01	AGM	12	70	760	278	175	190	B13	AP	0	21,2
9879976	580 01	AGM	12	80	800	315	175	190	B13	AP	0	18
9879540	592 01	AGM	12	92	850	353	175	190	B13	AP	0	26,2



# Motorcycle batteries

## Powersports AGM

AUTOMOTIVE POWER



The Q-Batteries motorcycle YT series with AGM (Absorbent Glass Mat) technology is wet or dry pre-charged. These batteries achieve a good charge acceptance and vibration resistant performance.

### Application:

- motorcycles
- lawn mowers
- jet skies

### Features:

- maintenance free
- vibration resistant
- AGM technology (Absorbent Glass Mat)

### Types:

Order number	Model	Technology	Volt	Ah	CCA A	Length (mm)	Width (mm)	Height (mm)	Hold down	Terminal	Circuit	Weight (kg) +/-3%
9877351	YTX4L-BS	AGM	12	3	60	113	70	85	B00	Y5	0	1,4
9879112	YTX5L-BS	AGM	12	4	70	113	70	105	B00	Y5	0	1,8
9879110	YTX7A-BS	AGM	12	6	90	150	87	93	B00	Y5	1	2,5
9877373	YTX7L-BS	AGM	12	6	110	113	70	130	B00	Y5	0	2,4
9879121	YTZ7-S	AGM	12	6	130	113	70	105	B00	Y5	0	2,0
9877355	YTX9-BS	AGM	12	8	120	150	87	105	B00	Y5	1	3,1
9879119	YTZ10-S	AGM	12	8,6	190	150	87	93	B00	Y5	1	2,9
9877356	YTX12-BS	AGM	12	10	180	150	87	130	B00	Y5	1	4,0
9879120	YTZ12-S	AGM	12	11	210	150	87	110	B00	Y5	1	3,3
9877357	YTX14-BS	AGM	12	12	200	150	87	145	B00	Y5	1	4,4
9879118	YBX20L-BS	AGM	12	18	270	175	87	155	B00	Y5	0	6,2

# Motorcycle batteries

## Powersports standard



The Q-Batteries 12V motorcycle batteries provide reliable performance and extended life for many types of motorcycles and other small vehicles. They are easy to install, have a robust construction and are ready for any weather condition.

The YB series are lead-acid batteries with very good cold-start performance. The batteries are pre-charged and are sold with a separate acid pack. Tilt- and leakproof when mounted upright, these batteries offer excellent starting power even in extreme weather conditions.

### Application:

- motorcycles
- lawn mowers
- jet skies










### Features:

- low maintenance
- durable
- high capacity

Order number	Model	Technology	Volt	Ah	CCA A	Length (mm)	Width (mm)	Height (mm)	Hold down	Terminal	Circuit	Weight (kg) +/-3%
9879114	YB4L-B	Acid	12	4	56	120	70	92	B00	Y5	0	1,6
9877358	YB9A-A	Acid	12	9	130	135	75	155	B00	Y6	1	3,1
9879113	YB9-B	Acid	12	9	130	135	75	139	B00	Y6	1	3,1
9879115	YB10L-B2	Acid	12	11	160	135	90	145	B00	Y8	0	4,1
9879111	YB12A-A	Acid	12	12	165	134	81	160	B00	Y6	1	4,2
9877359	YB12AL-A	Acid	12	12	165	134	81	160	B00	Y6	0	4,2
9879116	YB14A-A2	Acid	12	14	190	134	89	176	B00	Y8	1	4,6
9879117	YB14L-A2	Acid	12	14	190	134	89	166	B00	Y8	0	4,6
9879311	Y60-N24L-A	Acid	12	30	280	184	124	170	B00	Y10	0	5,8
9879606	Y60-N24-A	Acid	12	30	280	184	124	170	B00	Y10	1	8,2

# Accessories

## Battery terminals & maintenance

	Order number	Model	Description
	10105	battery terminal for automotive post	Material: zinc, brass coating Inside diameter: -16mm,+17.5mm Weight: 100g/pair
	1005981	battery terminal for automotive post	Material: brass, tin coating Inside diameter: -16mm,+17.5mm Weight: 220g/pair
	9877325	battery terminal for automotive post	Material: zinc, brass coating Inside diameter: -16mm,+17.5mm for cable up to 12mm, weight: 115g/pair
	9877326	battery terminal for automotive post	Material: zinc, brass coating Inside diameter: -16mm,+17.5mm for cable up to 8mm, weight: 115g/pair
	9877301	quick fit battery terminal for automotive post	Material: Brass Weight: 164g/pair
	9877339	battery disconnect	Material: Zinc, copper coating Inside diameter: 16.8mm Weight: 125g"
	9877329	battery terminal brush cleaner	Cleans battery posts and terminals
	9877331	battery cleaning tool	3-way cleaning tool metal brush bristles & cutting edges
	9877330	battery cleaning tool	3-in-1 batterie posts and terminal brush





## Alkaline batteries

The efficient alkaline batteries from Quality-Batteries deliver long-lasting energy for devices with constant and low energy consumption.

Order number	Model	Technology	Volt	Piece
401103	Micro AAA, LR03	Alkaline	1,5	4
401102	Mignon AA, LR06	Alkaline	1,5	4
401106	Baby C, LR14	Alkaline	1,5	2
401107	Mono D, LR20	Alkaline	1,5	2
401110	9V Block, 6LR1	Alkaline	9,0	1

## Lithium coin batteries

The lithium coin batteries with long lasting power are ideal for pocket calculators, LED-lights, watches, cameras and many other devices.

Coin batteries as blister product:

Order number	Model	Technology	Volt	Unit	Diameter	Height
401111	CR2016	Lithium	3	5	20mm	1,6mm
401112	CR2025	Lithium	3	5	20mm	2,5mm
401113	CR2032	Lithium	3	5	20mm	3,2mm
9877525	CR2430	Lithium	3	5	24,5mm	3,0mm

# Charger

## BL series



Q-Batteries chargers for lead batteries could charge 6V, 12V and 24V GEL, AGM, lead calcium and wet batteries. The chargers use a 3-step IUoU- charging curve to achieve a fast and careful charging of the batteries. The charger stops automatically once the battery is fully charged. This function avoids an overcharge.

### Features:

- Charging curve: IUoU
- Operating temperature: 0 – 40 °C
- Reverse polarity protection: yes
- Relative humidity: max. 85%
- Input voltage: 200 – 240 V

### Types:

Order number	Model	Volt (V)	Current (A) max.	Battery capacity (Ah) from to		Terminal	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
452002	BL6-0,6	6	0,6	2,4	6	clamps	68	53	40	0,1
452000	BL 12-0,5	12	0,5	2	5	clamps	82	56	47	0,2
452001	BL 12-1	12	1	4	11	clamps	83	58	50	0,2
940	BL 12-3	12	3	12	36	clamps	115	58	37	0,2
939	BL 12-5	12	5	20	50	clamps	153	72	46	0,4
938	BL 12-10	12	10	20	60	clamps	153	72	46	0,4
452004	BL 24-0,5	24	0,5	2	5	clamps	82	57	45	0,2
452005	BL 24-1	24	1	4	10	clamps	138	72	42	0,4
452006	BL 24-3 XLR	24	3	12	36	XLR plugs	158	90	53	0,5
9879861	BL 24-5 XLR	24	5	20	50	XLR plugs	178	80	45	1,0
452007	BL 24-10 XLR	24	10	40	120	XLR plugs	208	130	82	2,1

# Charger

## Q-Batteries high frequency charger by S.P.E.



The energy saving Q-Batteries high frequency charger are designed to charge 24V, 48V and 80V AGM, GEL and wet batteries in forklifts, floor cleaning machines and batteries used in RV / caravan & boat. Due to their modern high frequency technology these chargers have a small design and a lower power consumption than conventional 50Hz chargers.

### Types:

Order number	Model	Volt (V)	Current (A) max.	Battery capacity (Ah) from to		ISO standard	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
99879422	24V 2,5A	24	2,5	15	30	IP30	134	125	60	1,2
9877259	24V 10A	24	10	60	100	IP30	134	164	63	1,8
9877216	24V 13A	24	12	115	160	IP30	134	184	63	1,8
9877217	24V 20A	24	20	120	240	IP30	160	245	90	2,8
9877218	24V 25A	24	25	210	315	IP20	160	245	90	2,8
9879562	24V 25A	24	25	210	315	IP66	279,5	184	90	3,0
9877219	24V 35A	24	40	250	360	IP30	180	310	100	3,5
9877292	24V 60A	24	60	560	660	IP20	475	300	180	11,5
9877294	24V 100A	24	100	900	1100	IP20	520	333,5	180	13,5
9879312	36V 40A	36	40	360	440	IP20	475	300	180	11,5
9879313	36V 60A	36	60	540	660	IP20	520	333,5	180	13,5
9877231	48V 22A	48	22	105	350	IP20	180	310	100	3,7
9877221	48V 50A	48	50	450	550	IP20	367	677	223	36
9877222	48V 60A	48	60	540	660	IP20	180	333,5	520	13,5
9877223	48V 75A	48	75	680	830	IP20	180	333,5	530	13,5
9879150	48V 120A	48	120	1080	1320	IP20	367	677	223	36
9877224	80V 50A	80	50	450	550	IP20	367	677	223	36
9877225	80V 60A	80	60	540	660	IP20	367	677	223	36
9877226	80V 80A	80	80	720	880	IP20	367	677	223	36
9877227	80V 100A	80	100	900	1100	IP20	367	677	223	36

On request we could offer different battery terminals and other high frequency charger.



# Lithium

## Golf-battery-pack



Built with high quality lithium cells, this golf-battery-pack achieve a higher volume energy density and a longer shelf life than conventional lead batteries. In doing so the lithium cells have a limited weight and compact dimensions, which makes them ideal for use in golf trolleys.

### Application:

- Golf trolleys

### Features:

- very high volumic energy
- long shelf life
- limited weight
- compact dimensions

Order-number	Model	Technology	Volt	Ah	Wh	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%
9877489	12Lith-18 golf-battery-pack	Lithium	14,8	18	266,4	170	135	85	5

This lithium golf-battery-pack will be delivered incl. fitting battery charger, cabling and bag.



The Q-Batteries lithium accumulators with lithium iron phosphate technology (LiFePO4) are extremely cycle-resistant and versatile batteries. Compared to other lead-acid battery types, lithium-ion batteries are significantly lighter and have a longer service life. There is no danger of explosion even under extreme conditions or in case of misuse, as the innovative cell technology offers high operational reliability, long shelf life and wide temperature ranges.

## Application:

- Scooters, cleaning machines
- Rehabilitation technology
- Camper vans, caravans, boats
- Solar applications etc.

## Features:

- maintenance-free, extremely cycle-resistant
- very high energy density, long shelf life
- Lithium technology, can be used in any position
- low weight, compact dimensions

Order-number	Model	Volt	Ah	Wh	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Terminal
9880210	Lithium Akku 12-7.5	12,8	7,5	96	151	65	94	1,1	F1
9880209	Lithium Akku 12-20	12,8	20	256	181	77	167	2,7	F13 (M5)

# Battery Packs



We assemble the matching battery packs for your application. For this service we need the values of capacity, cell size, design and connection. We also make replacement cells for your battery powered tools. Please find a summary of the most common battery packs.

## Application:

- safety lighting
- emergency light
- escape lighting

## Features:

- Nickel-cadmium (NiCd) batteries made of robust cells with very good power performance.
- Nickel metal hydride (NiMH) batteries made of high quality cells without memory effect.

## NiMH High temperature cells

Order-number	Model	Volt	Capacity (mAh)	Cell	Shape	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Connector	Technology
401075	2,4V 4Ah F2x1	2,4	4000	4/3-A	Fence	36	18	70	0,20	Faston +6,3/-4,8	NiMH
9879659	3,6V 1,6Ah L3x1	3,6	1600	AA	Stick	45	15	50	0,15	Faston +6,3/-4,8	NiMH
401077	3,6V 3Ah F3x1	3,6	3000	Sub-C	Fence	69	23	43	0,25	Wire	NiMH
3210	3,6V 4Ah F3x1	3,6	4000	4/3-A	Fence	54	18	61	0,25	Wire	NiMH
3209	3,6V 4Ah D3	3,6	4000	Sub-C	Pyramide	70	36	34	0,25	Wire	NiMH
9877427	4,8V 0,9Ah F2x2	4,8	900	AAA	Fence	20	20	45	0,15	Wire	NiMH
3176	4,8V 1,6Ah F2x2	4,8	1600	AA	Block	30	30	50	0,25	Wire	NiMH
9877428	4,8V 2Ah F2x2	4,8	2000	AA	Fence	29	29	50	0,25	Wire	NiMH
9879193	4,8V 4Ah L4x1	4,8	4000	C	Stick	102	26	27	0,45	Faston +/-4,8	NiMH
3181	6V 1,6Ah L5x1	6	1600	AA	Stick	250	15	15	0,30	Wire	NiMH
9879662	6V 3Ah L5x1	6	3000	Sub-C	Stick	115	23	25	0,35	Wire	NiMH
9879668	6V 4Ah F5x1	6	4000	4/3-A	Fence	90	18	73	0,35	Faston +6,3/-4,8	NiMH
9879194	7,2V 1,5Ah L3x2	7,2	1500	AA	Stick	150	29	50	0,35	Faston +/-4,8	NiMH
9877429	7,2V 2Ah F6x1	7,2	2000	AA	Fence	50	29	46	0,35	Wire	NiMH
9879677	7,2V 2,15Ah F3x2	7,2	2150	4/5-A	Stick	265	17	19	0,25	Wire	NiMH
9879663	7,2V 3Ah 2x L3x1	7,2	3000	Sub-C	Stick	69	46	25	0,55	Faston +6,3/-4,8	NiMH
9879670	7,2V 4Ah L3x2	7,2	4000	4/3-A	Stick	213	36	20	0,45	Wire	NiMH
9879664	12V 3Ah F5x2	12	3000	Sub-C	Fence	69	23	43	0,25	Wire	NiMH
9879671	12V 4Ah F5x2	12	4000	4/3-A	Fence	90	36	73	0,65	Faston +6,3/-4,8	NiMH
9879667	12V 4Ah F5x2	12	4000	C	Fence	127,5	51	50	1,00	Wire	NiMH

## NiCd High temperature cells

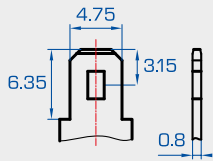
Order-number	Model	Volt	Capacity (mAh)	Cell	Shape	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Connector	Technology
9879515	2,4V 1,5Ah L2x1	2,4	1500	Sub-C	Stick	86	23	23	0,25	Faston +6,3/-4,8	NiCd
401089	2,4V 1,8Ah F2x1	2,4	1800	Sub-C	Fence	46	33	43	0,25	Wire	NiCd
9879618	2,4V 2Ah F2x1	2,4	2000	Sub-C	Fence	46	23	43	0,25	Faston +6,3/-4,8	NiCd
400964	2,4V 2,5Ah F2x1	2,4	2500	C	Fence	52	50	50	0,20	soldering lug	NiCd
9879617	2,4V 2,5Ah L2x1	2,4	2500	D	Stick	100	26	26	0,20	Faston +6,3/-4,8	NiCd
3192	2,4V 4Ah L2x1	2,4	4000	C	Stick	120	33	33	0,35	Wire	NiCd



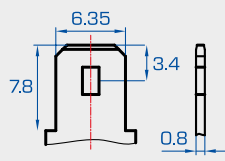
## NiCd High temperature cells

Order-number	Model	Volt	Capacity (mAh)	Cell	Shape	Length (mm)	Width (mm)	Height (mm)	Weight (kg) +/-3%	Connector	Technology
3161	2,4V 4Ah F2x1	2,4	4000	D	Fence	66	33	60	0,35	Wire	NiCd
9879655	2,4V 4,5Ah F2x1	2,4	4500	D	Fence	66	33	60	0,35	Wire	NiCd
3211	3,6V 1,5Ah F3x1	3,6	1500	Sub-C	Fence	69	23	43	0,25	Wire	NiCd
400367	3,6V 1,5Ah L3x1	3,6	1500	Sub-C	Stick	129	23	23	0,25	Faston +6,3/-4,8	NiCd
3160	3,6V 1,8Ah F3x1	3,6	1800	Sub-C	Fence	69	23	43	0,25	Wire	NiCd
9879519	3,6V 1,8Ah L3x1	3,6	1800	Sub-C	Stick	129	23	23	0,25	Faston +6,3/-4,8	NiCd
9879189	3,6V 2Ah L3x1	3,6	2000	Sub-C	Stick	129	23	23	0,25	Faston +/-4,8	NiCd
9879621	3,6V 2Ah L3x1	3,6	2000	Sub-C	Stick	129	23	23	0,25	Faston +6,3/-4,8	NiCd
3170	3,6V 2,5Ah F3x1	3,6	2500	C	Fence	78	26	50	0,30	Wire	NiCd
9879620	3,6V 2,5Ah L3x1	3,6	2500	D	Stick	150	26	26	0,30	Faston +6,3/-4,8	NiCd
3298	3,6V 4Ah L3x1	3,6	4000	D	Stick	180	33	33	0,65	Faston +4,8/-4,8	NiCd
400392	3,6V 4Ah L3x1	3,6	4000	D	Stick	180	33	33	0,65	ohne	NiCd
9879656	3,6V 4,5Ah F3x1	3,6	4500	D	Fence	100	33	60	0,65	Wire	NiCd
9877171	3,6V 4,5Ah L3x1	3,6	4500	D	Stick	180	33	33	0,65	Wire	NiCd
9879191	4,8V 0,6Ah 2x2	4,8	600	AA	Block	100	29	50	0,12	Faston +/-4,8	NiCd
9879222	4,8V 1,1Ah F2x2	4,8	1100	AA	Stick	29	29	50	0,15	Wire mit Molex	NiCd
400366	4,8V 1,5Ah F2x2	4,8	1500	Sub-C	Block	66	66	60	0,35	Wire	NiCd
400394	4,8V 1,5Ah L4x1	4,8	1500	Sub-C	Stick	170	23	23	0,35	Faston +6,3/-4,8	NiCd
3196	4,8V 1,8Ah F4x1	4,8	1800	Sub-C	Fence	92	23	43	0,35	Wire	NiCd
9879645	4,8V 1,8Ah L4x1	4,8	1800	Sub-C	Stick	170	23	23	0,35	Faston +6,3/-4,8	NiCd
400963	4,8V 2,5Ah F4x1	4,8	2500	C	Fence	104	26	50	0,35	Wire	NiCd
3184	4,8V 2,5Ah L4x1	4,8	2500	C	Stick	194	26	26	0,35	Wire	NiCd
3100	4,8V 4Ah F4x1	4,8	4000	D	Fence	133	33	60	0,70	Wire	NiCd
9877173	4,8V 4Ah L4x1	4,8	4000	D	Stick	240	33	33	0,70	Faston +6,3/-4,8	NiCd
400395	4,8V 4,5Ah L4x1	4,8	4500	D	Stick	240	33	33	0,70	soldering lug	NiCd
400965	6V 1,5Ah F5x1	6	1500	Sub-C	Fence	115	23	43	0,40	Wire	NiCd
400391	6V 1,5Ah L5x1	6	1500	Sub-C	Stick	210	23	23	0,40	Wire	NiCd
9879631	6V 1,8Ah F5x1	6	1800	Sub-C	Fence	115	23	43	0,40	Wire	NiCd
9879630	6V 2Ah L5x1	6	2000	Sub-C	Stick	215	23	23	0,40	Wire	NiCd
401071	6V 2,5Ah F5x1	6	2500	C	Fence	130	50	26	0,45	Wire	NiCd
9879629	6V 2,5Ah L5x1	6	2500	C	Stick	25	26	26	0,45	Faston +6,3/-4,8	NiCd
3207	6V 4Ah L5x1	6	4000	D	Stick	300	33	33	0,80	Wire	NiCd
9879654	6V 4Ah L5x1	6	4000	D	Stick	300	33	33	0,80	Faston +6,3/-4,8	NiCd
400396	6V 4,5Ah L5x1	6	4500	D	Fence	300	33	33	0,80	Wire	NiCd
9879644	7,2V 1,5Ah F6x1	7,2	1500	Sub-C	Fence	138	23	43	0,45	Faston +6,3/-4,8	NiCd
3299	7,2V 1,5Ah F6x1	7,2	1500	Sub-C	Stick	255	23	23	0,40	Wire	NiCd
9879648	7,2V 1,8Ah L3x2	7,2	1800	C	Stick	129	46	23	0,50	Faston +6,3/-4,8	NiCd
9879634	7,2V 1,8Ah F6x1	7,2	1800	Sub-C	Fence	138	23	43	0,45	Faston +6,3/-4,8	NiCd
9879632	7,2V 2Ah F6x1	7,2	2000	Sub-C	Fence	138	23	43	0,45	Faston +6,3/-4,8	NiCd
9879652	7,2V 2,5Ah F6x1	7,2	2500	C	Fence	138	23	43	0,50	Wire	NiCd
110031	7,2V 4Ah 2x F3x1	7,2	4000	D	Stick	180	33	68	1,00	Wire	NiCd
3191	7,2V 4Ah L6x1	7,2	4000	D	Stick	360	33	33	1,00	Wire	NiCd
9879615	9,6V 0,8Ah F8x1	9,6	800	AA	Fence	120	15	51	0,25	Wire	NiCd
3297	12V 0,8Ah F5x2	12	800	AA	D-fence	73	30	50	0,30	soldering lug	NiCd
9877165	12V 1,8Ah F5x2	12	1800	Sub-C	Fence	115	45	43	0,65	soldering lug	NiCd
9879637	12V 2Ah F5x2	12	2000	Sub-C	Fence	115	46	43	0,65	Wire	NiCd
9879676	12V 2,5Ah F5x2	12	2500	C	Fence	127,5	51	50	1,00	Faston +6,3/-4,8	NiCd
9879635	12V 4Ah L5x2	12	4000	D	Stick	300	66	33	1,60	Faston +6,3/-4,8	NiCd
9879658	12V 4,5Ah F5x2	12	4500	D	D-fence	295	66	61	1,60	Wire	NiCd
9879657	12V 4,5Ah F5x2	12	4500	D	Fence	295	66	61	1,60	Faston +6,3/-4,8	NiCd
9877169	24V 0,8Ah F5x2x2	24	800	AA	D-fence	73	30	100	1,00	Lötfahne	NiCd
9877166	24V 1,8Ah F5x2x2	24	1800	D	D-fence	115	45	86	1,50	Lötfahne	NiCd

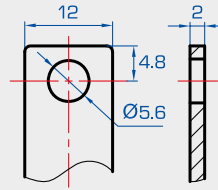
# Terminals



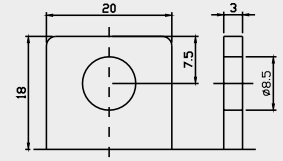
F1 (Faston-Connector 4,75mm)



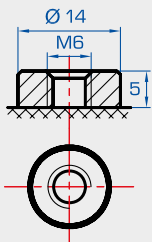
F2 (Faston-Connector 6,35mm)



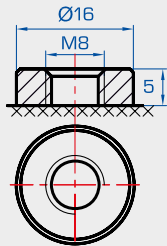
F3 (Flag connector)



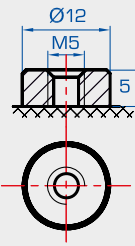
F5 (Flag connector)



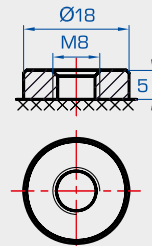
F11 (threaded insert M6)



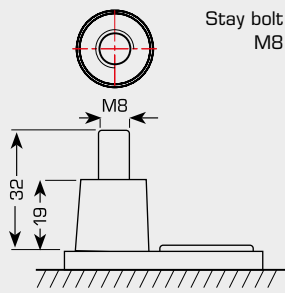
F12 (threaded insert M8)



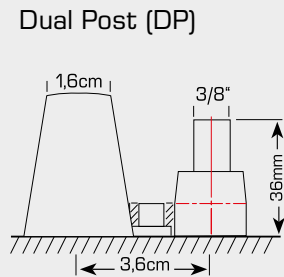
F13 (threaded insert M5)



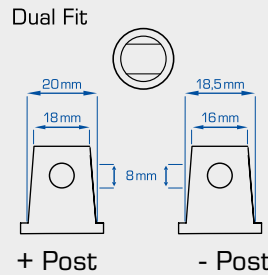
F14 (threaded insert M8)



Stay bolt  
M8



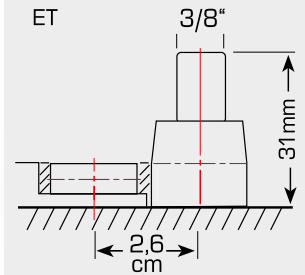
Dual Post (DP)



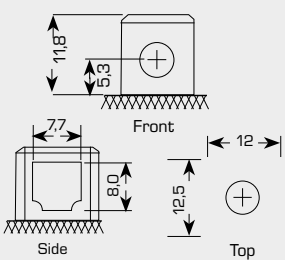
Dual Fit

+ Post

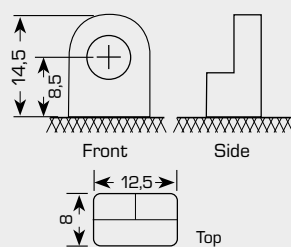
- Post



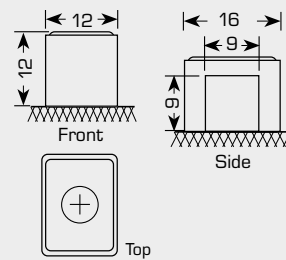
ET



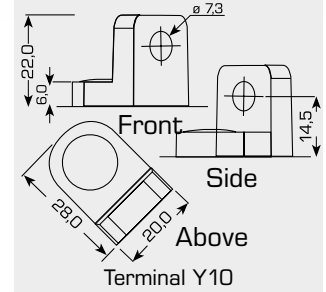
Terminal Y5



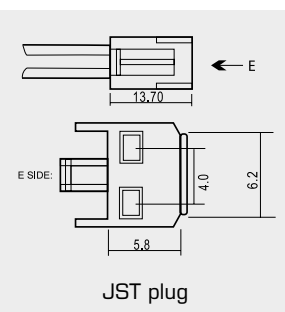
Terminal Y6



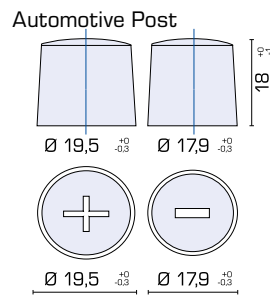
Terminal Y8



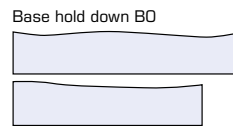
Terminal Y10



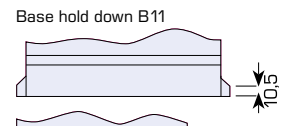
JST plug



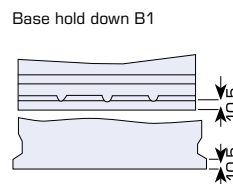
Automotive Post



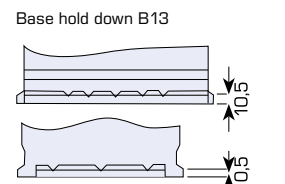
Base hold down B0



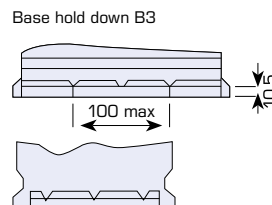
Base hold down B11



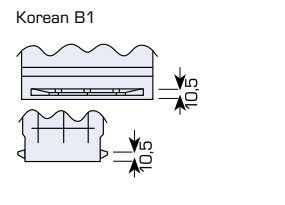
Base hold down B1



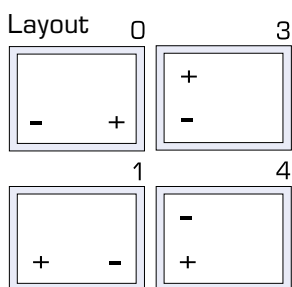
Base hold down B13



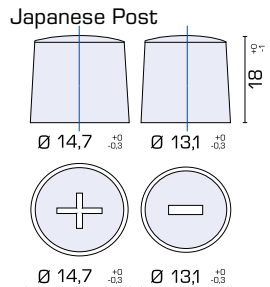
Base hold down B3



Korean B1



Layout



Japanese Post

## Instruction

Following is a list of answers and questions for handling lead batteries (AGM/Gel) in the right way. If you note the following "Golden Rules", your storage batteries will have a long life and excellent energy storage capacity. Furthermore please observe safety information from the battery manufacturer.

### Can I use any charger?

Please only use a charger that is compatible with your lead battery. The chargers are specially adapted to different types of batteries (manufacturers, types and capacity, etc.). If you are in any doubt, please contact your service partner.

### Is there a special charging time for the first use?

If possible, please charge your lead acid battery at least 24 hours before the first use.

### Is it sufficient to fully charge the battery once?

The lead storage battery obtains its full capacity after a few charging and discharging cycles.

### How often does a lead acid battery need to be charged?

Please take every opportunity to charge your storage battery. The deeper the discharge value of the battery, the shorter its durability will be/remain. Contrary to a popular believe, lead acid batterie have no memory effect.

### How to keep discharged batteries?

Never store discharged batteries! Lead storage batteries should be charged after each use. (Especially if they are stored during the winter.)

### What does deep discharging a battery mean and what is its impact to the battery?

Deeply discharging a battery causes lasting damage for your lead acid battery. This is the case if it is discharged more than 60% of the batteries total capacity.

### What should be observed during charging?

Lead batteries should always be charged with deactivated/disconnected consumers.

### How long could batteries be stored without charging?

Storage batteries have to be energised, that means to be connected to a charger at all times, or at regular intervals especially during the winter time. We recommend to charge them at least every 2 months for 24 hours.





**MOTIVE POWER**

**AGM CYCLE TYPE**

**SEMITRACTION (SEM)**

**DEEP CYCLE (DC)**

**GEL TECHNOLOGY**

**TUBULAR PLATE (TTB)**

**FORKLIFT BATTERIES**

**AGM TRACTION**

**RESERVE POWER**

**AGM STANDARD / VdS**

**AGM 10 YEARS**

**FRONT TERMINAL**

**HIGH RATE**

**OGi**

**OPzS**

**OPzV**

**AUTOMOTIVE POWER**

**AGM STARTER**

**POWERSPORTS STANDARD**

**POWERSPORTS AGM**

**BATTERY PACKS**

**RECHARGEABLE BATTERY PACKS**

**LITHIUM POWER**

**GOLF BATTERY PACK**

**LIFEPO4**

**CONSUMER BATTERIES**

**NON-RECHARGEABLE CELLS**

**CHARGER**

**BATTERY CHARGER**