GYGLIG BATTERIES

NICE TO KNOW



CYCLIC BATTERIES

Cyclic batteries can withstand many deep discharges. This makes these batteries perfect for mobile elevating work platforms, industrial cleaning machines, forklifts, golf carts and other electric powered vehicles.

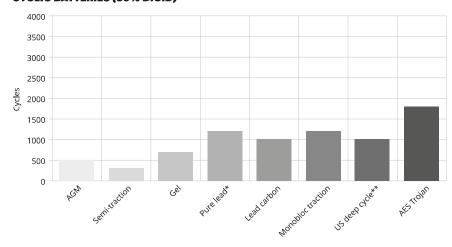
Within this battery category, we distinguish open lead-acid and maintenance-free batteries.

Cyclic batteries differ in their number of cycles (according to DIN), below you find an overview of the number of cycles per technology.

With this information we want to help you to make the right choice to power your vehicle.

The electrolyte of flooded batteries is in liquid form and required a regular water level up. Whereas the electrolyte of sealed batteries is gel form or acid socked glass mat form. Hence sealed batteries don't require any water and these batteries can be placed upside down or on their side. When selecting the battery do make sure that your charger is suitable for your battery and it has the right charge profile for your battery type (open lead-acid / maintenance-free).

CYCLIC BATTERIES (80% D.O.D)



^{* @ 60% (}D.o.D)

^{**} Depending on model

CROWN BATTERY



WE PUT MORE IN OUR DEEP-CYCLE BATTERIES

So you can get better performances, higher productivity and less maintenance.

1. Z3 PLATE CONSTRUCTION

The Z3 plate design combines four integrated features for superior performance and durability.
• The signature "Diamond Z" grid architecture

- An inset lug position
- Upgraded "Active Life Plus" paste material!
- Heavy-duty construction: more lead = more power!

2. POSI-WRAP ENVELOPE SEPARATORS

Posi-Wrap separators reduce maintenance and prevent failure due to short circuiting and plate shredding, ensuring reliability and durability.

3. IGID CONNECTORS

Heavy-duty TTP, COS and Post connectors deliver maximum electrical efficiency and durability.

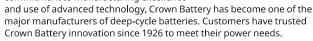
4. PROEYE LEVEL INDICATOR

A simple, safe and reliable system for inspecting electrolyte levels that signals when watering is required.

5. X-TEND CONTAINER DESIGN

X-Tend provides more electrolyte above the battery plates so batteries can perform longer between watering intervals.

Over 90 years ago, Crown Battery opened its doors as a sole-proprietorship battery repair shop. Today, thanks to their loyal global customer network, dedicated workforce, commitment to manufacturing excellence



The Power Behi<mark>nd</mark> Performance

The line-up of deep-cycle batteries includes models designed for mobile elevating work platforms, industrial cleaning machines, golf & utility carts and other EV leisure applications, solar energy storage, traffic control and marine applications. Our batteries are proudly manufactured in the USA and distributed globally.

Key product features:

- Exclusive C-Force Active Mass for increased charge acceptance, even in less than optimal charging conditions and discharge times.
- Rugged, solidcast plates that result in longer battery lifetime.
- Posi-Wrap plate separators and other proprietary Crown components reduced maintenance and prevent failure due to short circuit.
- PROeye level indicator to easily inspect electrolyte levels that signals when watering is required.



GYGLIG BATTERIES

US DEEP-CYCLE



CR165



CR185HD



CR195HD



CR220HD



CR240HD



Kit filler caps



R250



CR305HD



CR330HD



CR350HD



CR390HD

*This kit is suitable for providing exactly one battery with the necessary filler caps and floats

CROWN/CROSS REFERENCES

Model	C20	C5	Length	Width	Height	Weight	Layout	Terminals	PRO Eye	REF		Old REF
	Ah	Ah	mm	mm	mm	kg				Batteries	Kit filler caps*	Kit filler caps*
Batteries 6 V d	еер-сус	le										
CR220HD	220	180	260	179	278	27.2	0	DT 1 + 8	No	168TA1047	168TA1071	BAT/47541
CR235HD	235	190	260	179	278	28.6	0	DT 1 + 8	No	168TA1048	168TA1071	BAT/47541
CR240HD	240	195	260	179	278	30.8	0	DT 1 + 8	No	168TA1049	168TA1071	BAT/47541
CR240E	240	195	245	191	273	29.0	0	1	No	168TA1050	168TA1072	BAT/47548
CR260HD	260	215	260	179	295	34.0	0	DT 1 + 8	No	168TA1051	168TA1073	BAT/47549
CR250	250	200	298	183	283	33.1	0	DT 1 + 8	No	168TA1052	168TA1073	BAT/47549
CR305HD	305	255	310	183	359	40.8	0	DT 1 + 8	Yes	168TA1053	168TA1070	BAT/47550
CR330HD	330	270	310	183	359	42.2	0	DT 1 + 8	Yes	168TA1054	168TA1070	BAT/47550
CR350HD	350	290	310	183	359	45.8	0	DT 1 + 8	Yes	168TA1055	168TA1073	BAT/47549
CR370HD	370	295	314	183	410	46.0	0	DT 1 + 8	Yes	168TA1056	168TA1070	BAT/47550
CR390HD	390	310	314	183	410	52.2	0	DT 1 + 8	Yes	168TA1057	168TA1070	BAT/47550
CR390HD-ZHV	390	310	292	183	410	52.2	0	DT 1 + 8	Yes	168TA1058	168TA1070	BAT/47550
CR430HD	430	340	314	183	410	55.3	0	DT 1 + 8	Yes	168TA1059	168TA1073	BAT/47549
Batteries 8 V d	еер-сус	le										
CR165	165	140	262	179	275	29.0	1	S	No	168TA1060	168TA1074	BAT/47551
CR190	190	155	262	179	275	31.3	1	S	No	168TA1061	168TA1074	BAT/47551
Batteries 12 V	deep-cy	cle										
24DC95	95	75	278	171	238	22.7	1	DT 1 + 8	No	168TA1062	-	-
27DC115	115	95	321	171	238	23.6	1	DT 1 + 8	No	152TA4591	-	-
31DC130	130	105	330	171	238	30.4	1	DT 1 + 8	No	152TA7108	-	-
GCCR150	150	123	328	179	267	36.7	1	DT 1 + 8	No	168TA1063	168TA1075	BAT/47552
GCCR155	155	125	328	179	267	39.9	1	DT 1 + 8	No	168TA1064	168TA1075	BAT/47552
CR185HD	185	150	394	178	372	48.5	0	DT 1 + 8	Yes	168TA1065	168TA1076	BAT/47570
CR195HD	195	160	394	178	372	49.9	0	DT 1 + 8	Yes	168TA1066	168TA1076	BAT/47570
CR215HD	215	180	394	178	372	54.4	0	DT 1 + 8	Yes	168TA1067	168TA1076	BAT/47570
Accessories												
Quick release fo	or 6 V ba	tteries wi	ith 3 plugs							115TA6845	_	BAT/21157
Quick release fo	or 8V ba	tteries wi	ith 4 plugs							168TA1077	-	BAT/21158

^{*} ZHV = without handles

SNAPCAP™ VENTS



REF <u>168TA1648</u> Old: BAT/48840



REF <u>168TA1649</u> Old: BAT/48839

HANDLE



REF <u>115TA6846</u> Old: BAT/20016

One-piece design

Now available on Crown 6 and 12 V deep-cycle batteries

The new convenience

Crown battery will begin producing our range of high capacity 6 and 12 V deep-cycle batteries with the company's proprietary one-piece SnapCap vent component.

The SnapCap vent component delivers a number of major benefits to battery owners and users:

A highly convenient one-piece locking vent component that makes battery inspection easier and more efficient.

The SnapCap utilizes a lock-in base that secures the vent to the cell opening by manual compression. Installation is fast and easy and does not require tightening of the vent after installation.

The SnapCap design includes a low-profile and multiple safety features that makes it one of the safest vents on the market.

Flooded lead deep-cycle batteries with "SnapCap" vents

Vent component design change

Effective in June 2016 for the following deep-cycle group sizes and battery models:

BCI Group 901: CR-250 and CR-275 BCI Group 903: CR-370, CR-390 and CR-430 BCI Group 902: CR-305, CR-330 and CR-350 BCI Group 921: CR-185, CR-195 and CR-215

CONNECTIONS & CABLES



Battery connection Ø 25 mm

REF	Old REF
168TA1650	BAT/23477
<u>168TA1651</u>	BAT/23479
168TA1652	BAT/23481
168TA1653	BAT/23483
168TA1654	BAT/23485
168TA1655	BAT/23487
<u>168TA1656</u>	BAT/23489
	168TA1650 168TA1651 168TA1652 168TA1653 168TA1654 168TA1655

^{*} Other dimensions are available on demand.



Terminal cable Ø 25 mm

Length	REF	Old REF
mm		
75	168TA1657	BAT/23651
95	168TA1658	BAT/23653
190	168TA1659	BAT/23655
280	168TA1660	BAT/23657
300	168TA1661	BAT/23659

QUICK RELEASE





REF 115TA6845 – Quick release for 6 V batteries with 3 plugs

Old: BAT/21157

REF 168TA1077 - Quick release for 8 V batteries with 4 plugs

Old: BAT/21158

Diameter	Colour	REF	Old REF
mm			
32	Red	131TA7018	BAT/38794
32	Black	131TA7019	BAT/38796
30	Red	131TA7020	BAT/38792
30	Black	131TA7021	BAT/38285
26	Red	131TA7022	BAT/38788
26	Black	131TA7023	BAT/38790
24	Red	131TA7024	BAT/38784
24	Black	131TA7025	BAT/38786
20	Red	131TA7026	BAT/38780
20	Black	131TA7027	BAT/38782

OYOUG BATTEMES

NICE TO KNOW





TROJAN BATTERIES

With nearly 100 years of experience powering business and industry, Trojan is the world's leading supplier of deep-cycle batteries. Trojan batteries are synonymous with high performance, reliability, durability and a long lifespan. A truly outstanding battery is ready for action, day in and day out. At TVH, we know you need to be able to count on your batteries at all times. That's why we recommend Trojan. We offer a broad range of high-quality Trojan batteries to suit any need: deep-cycle flooded batteries, AGM batteries and gel batteries. Trojan has become the leading supplier of deep-cycle batteries for industries ranging from transportation to renewable energy. Their superior batteries power a wide range of vehicles, such as mobile elevating work platforms (MEWPs), industrial cleaning machines, golf carts, marine and recreational vehicles.



INNOVATIVE DEEP-CYCLE FLOODED BATTERIES

Trojan's deep-cycle flooded batteries are their flagship product. They're engineered to provide durability, outstanding performance and a long lifespan, even in rugged conditions. This makes them perfect for a variety of electric vehicles. Featuring Trojan's historically proven engineering and T2 Technology", an advanced battery technology for maximum sustained performance, these powerful deep-cycle flooded batteries are the best in the business.



For more information



LITHIUM

Next in a long line of trusted Trojan power, our new GC2 deep cycle lithium-ion batteries deliver the ultimate in performance and requires virtually no maintenance. And with a smart battery maintenance system (BMS) that self-protects against short circuits and overheating, Trojan lithium-ion deep cycle batteries take safety to the next level.

- 24 V, 36 V and 48 V
- Long life cycle
- Safe chemistry



TROJAN AES

The new Trojan AES Batteries deliver up to 3 x the cycle life with high, sustained performance versus standard AGM. And, the battery maintains high capacity in extreme deep-cycling (up to 100% DoD), partial charging, and challenging environments.

It outperforms the competition in these areas:

- Up to 3 x lift of AGM
- Robust performance
- Maintenance free



FLOODED LEAD-ACID

Trojan flooded lead-acid batteries, also called wet or wet cell lead-acid batteries, are our all-around powerhouse and workhorse batteries. Utilizing Trojan advanced T2™ technology, these rugged, durable, long life batteries deliver maximum sustained performance for your golf and utility vehicles, AWP, floor machine, marine, RVs, renewable energy and more.

Trojan flooded deep cycle batteries are the longest lasting of the lead-acid batteries. They require regular watering with distilled water after charging, and to prevent spillage, they must remain upright.

- Low cost
- Robust and reliable
- 99% recyclable

DEEP-CYCLE FLOODED BATTERIES WITH T2 TECHNOLOGY









Motive 6 V

Rugged Motive 6 V

Motive 8 V

Motive 12 V

Model	BCI Group size	Capacity 5-Hr	Capacity 20-Hr	Length	Width	Total height	Compatible with Hydrolink	Terminal type	Vents	Handle	Hardware	Max qty/ pallet	REF
				mm	mm	mm							
6 V deep-cyc	le flooded	d batteries											
J250G	901	195	235	309	174	290	✓	EUTR	Bayo		Nuts/bolts	28	166TA4197
J250P	901	215	250	296	176	293		DT	Bayo	~	Hex nut	28	166TA4198
J305E-AC	902	250	305	312	174	366	✓	EUTR	Bayo	~	Nuts/bolts	30	166TA4199
J305G-AC	902	258	315	312	174	366	✓	EUTR	Bayo	~	Nuts/bolts	30	145TA1961
J305H-AC	902	295	360	296	176	366		DT	Bayo	~	Hex nut	30	166TA4201
J305P-AC	902	271	330	296	176	366		DT	Bayo	~	Hex nut	30	106TA8679
L16E-AC	903	303	370	311	174	417	✓	EUTR	Bayo	~	Nuts/bolts	28	166TA4203
L16G-AC	903	320	390	311	174	417	~	EUTR	Bayo		Nuts/bolts	28	166TA4204
L16H-AC	903	357	435	296	176	425		DT	Bayo	~	Hex nut	26	166TA4206
L16HG-AC	903	357	435	311	174	417	~	EUTR	Bayo	~	Nuts/bolts	26	166TA4207
L16P-AC	903	344	420	296	176	425		DT	Bayo	~	Hex nut	28	106TA8680
T-105	GC2	185	225	262	181	281	~	ELPT	Bayo		Hex nut	48	106TA8677
T-105-EUT	GC2	185	225	262	181	281	~	EUT	Bayo		Hex nut	48	166TA4211
T-125	GC2	195	240	262	181	281	✓	ELPT	Bayo		Hex nut	48	166TA4216
T-145	GC2H	215	260	262	181	302	~	EHPT	Bayo		Hex nut	45	106TA8678
T-605	GC2	175	210	262	181	281	~	ELPT	Bayo		Hex nut	48	166TA4228
TE35	DIN	200	245	244	191	269		AP	Screw in	~	N/A	48	166TA4230
8 V deep-cyc	le flooded	d batteries											
DC-8V	GC8	135	160	259	179	283	✓	EHPT	Master		Hex nut	48	166TA4231
T-875	GC8	145	170	259	179	283	~	ELPT	Bayo		Hex nut	48	166TA4234
T-890	GC8	155	190	259	179	283	✓	ELPT	Bayo		Hex nut	48	166TA4237
12 V deep-cy	cle flood	ed batteries	5										
24TMX	24	70	85	277	168	235		AP	Pod	~	Nuts/bolts	54	166TA4238
27TMH	27	95	115	323	168	235		AP	Pod	~	N/A	28	166TA4241
27TMX	27	85	105	323	168	235		AP	Pod	~	N/A	42	165TA4535
27TMXWNT	27	85	105	323	168	235		WNT	Pod	~	WNT	28	166TA4247
30XHS	30H	105	130	355	171	256		AP	Pod	~	N/A	36	166TA4248
31XHS	31	105	130	329	171	243		Stud	Screw in	~	Hex nut	24	166TA4251
J185P-AC	921	168	205	380	176	374		DT	Bayo	~	Hex nut	24	166TA4260
SCS225	30H	105	130	354	171	253		DWNT	Pod	~	WNT	36	166TA4264
T-1275	GC12	120	150	329	181	272	✓	ELPT	Master		Hex nut	36	166TA4266

AES BATTERIES



THE NEW TROJAN AES BATTERY DELIVERS UP TO 3 X THE CYCLE LIFE OF STANDARD AGM

The Trojan AES battery delivers up to 3 x the cycle life with high sustained performance versus standard AGM. The battery maintains high capacity in extreme deep-cycling (up to 100% DoD), partial charging, and challenging environments. It out performs the competition in these areas:



LAST LONGER

Up to 3 x more cycle life than standard AGM. Validated at 1200 cycles at 100% DoD vs. 400 cycles for AGM



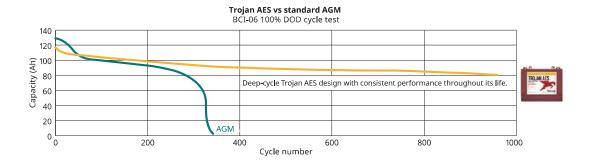
PERFORMS IN HARSH CONDITIONS

Robust performance in exreme temperatures and conditions. Temperature range from –40 to 71 °C (–40 to 160 °F)



DELIVERS HARMLESS PSOC

Tested to withstand Partial State of Charge, again and again



Trojan AES maintains high capacity in extreme deep-cycling (up to 100% DoD) with consistent performance throughout its life compared to standard AGM.

WITH AES, ENJOYTHESE ADDED BENEFITS.

- Maintenance free: Virtually no maintenance as watering is not required.
- Safe and sustainable: Trojan AES is classified as non-spillable and can be safely mounted horizontally to fit difficult locations. It's made using 80% recycled materials and is 99% recyclable.
- Rugged design: Designed and manufactured to absorb vibration and shock.
- AGM charger: This VRLA battery is charged with existing AGM profiles.

AES CAN HELP OEMS AND MASTER DISTRIBUTORS PREEMPT COSTLY PROBLEMS.

The Trojan AES Battery is locally available, reliable and proven to meet high performance standards, so you can assure customers are getting the best experience.

AES boosts productivity and cuts downtime for:

- Equipment rental companies
- · Hospitals, airports, and educational facilities
- Warehousing/material handling equipment

Trojan AES is ideal for floor-cleaning machines, aerial work platforms, and material-handling equipment.

Model	BCI group size	C20	C5	Length	Width	Height	Terminal type	Weight	Max qty pallet	REF
		Ah	Ah	mm	mm	mm		kg		
6 V										
J305-AES-DT	902	279	228	296	176	358	DT	45	28	168TA2867
L16-AES-DT	903	355	294	296	176	417	DT	55	28	168TA2868
T105-AES-AP	GC2	207	170	262	179	273	AP	32	31	168TA2869
8 V										
T875-AES-AP	GC8	158	131	262	179	273	AP	33	31	168TA2870
12 V										
24-AES-DT	24	76	67	274	174	219	DT	25	54	168TA2871
27-AES-DT	27	89	77	306	174	237	DT	30	42	168TA2872
31-AES-DT	29	102	82	235	173	238	DT	31	36	168TA2873
J185-AES-DT	921	175	140	380	176	367	DT	57	24	168TA2874
OVERDRIVE-31-AES- STUD	31	104	83	325	173	240	STUD	31	36	168TA2875
T1275-AES-AP	GC12	130	99	329	179	278	AP	39	23	168TA2876

LITHIUM INSERT BATTERY KIT 24 V AND AGM INSERT BATTERY KIT 24 V



- Kit with support and cover to be easily inserted in material handling class 3 applications:
- Maintenance free
- Deepfreezer proof, performs great in temp range of –40 to 71 $^{\circ}\text{C}$
- 1200 cycles ta 100% DOD (3 times longer then standard AGM)
- Safe and durable (99% recycable)
 Battery can be installed in horizontal position
- Robuust design vibration proof
- Can be charged with standard AGM charge profice

Only for class 3 type pallettrucks, must fit these case dimensions L677 \times W200 \times H566 mm

REF 168TA7805

OTHER SPECIFICATIONS

- Charging voltage settings (@ 25 °C (77 °F))
- Sytem voltage: 24 V
- Maximum charge current: 50% c20
- Absorption voltage (2.40 V/cell): 28.80
- Float voltage (2.25 V/cell): 27.00
- Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

Voltage	Capacity A min	utes	Capacity B	Capacity B AMP-hours (Ah)						
	@ 25 Amps	@ 75 Amps	5 hr	10 hr	100 hr	100 hr				
24	420	113	170	185	207	225	1.35			

GYGLIG BATTERIES

LITHIUM-ION BATTERIES



8-YEAR WARRANTY - YOUR INVESTMENT IS PROTECTED AND YOU CAN STILL BE AROUND IN 8 YEARS TO HONOR IT 4000 CYLCLES @70% DOD (TO 70% OF INITIAL CAPACITY) AT 25 A)







WHY TROJAN BATTERY IS A TRUSTED NAME FOR LITHIUM-ION TECHNOLOGY

Internal temperature sensors are a key component in lithium-ion battery charging and safety. They provide critical temperature data required to keep the lithium-ion battery in the optimum condition during the charging cycle.

Unlike other lithium-ion batteries that have only two or three, Trojan GC 24 V, 36 V and 48 V lithium-ion batteries have five internal temperature sensors. Three are positioned to monitor cell temperaure gradients. One ensures balance between the two sides of the battery. The fifth is on the BMS board to monitor discharge current path and electronics temperature.

Temperature sensors sever two main purposes:

- Preventing damage to the cells when changed in low temperatures
- Preventing dangerous overheating cnditions within a cel or cells during charge

More sensors provide more feedback to the BMS, giving it better cntrol off the charging. The result is longer battery life and safer operation.

Trojan lithium-ion batteries have four levels of safety redundancy at the cell level:

- 1. Stable cell chemistry/(Lithium Iron Phosphate)
- 2. Independent charge/discharge control unit
- 3. Secondary charge and discharge control circuit
- 4. Emergency mechanical fusing

With your safety in mind first, Trojan lithium-ion batteries feature a battery management system (BMS) that protects against short circuits, overheating and other unsafe conditions. They are equipped with a truy "smart" design that utilizes dual processors for full back-up ensuring the system is always running.

Model	Capacity minutes	Capacity	Capacity amp – hours			Length	Width	Height	Operating temp	Terminal type	REF
	@25 A	5 hr	10 hr	20 hr	kWh	mm	mm	mm			
TRL-GC2-24-M	156	65	65	65	1.75	264	180	278	–20 to 60 °C	M8	168TA2877
TRL-GC2-36-M	108	45	45	45	1.75	264	180	278	–20 to 60 °C	M8	168TA2878
TR-GC2-48-G	72	30	30	30	1.53	264	180	278	–40 to 60 °C	M8	168TA2879

TROJAN CLASS 3 INSERT LI-ION BATTERY







REF 168TA8010 - 25.6 V 130 Ah 3328 Wh 2 in parallel REF 168TA8011 - 25.6 V 195 Ah 4992 Wh 3 in parallel REF 168TA7804 - 25.6 V 260 Ah 6656 Wh 4 in parallel

OTHER SPECIFICATIONS

Performance and system specifications @	25 °C (77 °F)
Maximum continuous discharge current	90 A
Maximum pulse discharge current (30 sec)	100 A
Maximum instantaneous discharge current (0.4 sec)	160 A
Reserve capacity @ 25 A	156 min
Battery internal protection	Short circuit current Temperature Over voltage Under voltage Over-current
Battery functions	Cell balancing State of charge CAN-bus communication
Safety system	Fuse, hardware, BMS
Discharge voltage cutoff	20.24 V
Environmental protection	IP67
Shipping classification	UN3480, class 9
Case flame rating	IUL94 V-0

GYCLIG BATTERIES

TERMINAL CONFIGURATIONS



1 – ELPT Embedded Low profile



2 – EHPT Embedded High profile



3 – EAPT Embedded Automotive post



4 – EUT/R Embedded Universal/reverse



5 – LT L-terminal



6 – DTAutomotive
Post and stud



7 – UT Universal



8 – APAutomotive post



9 – WNT Wingnut



10 – DWNT Dual wingnut



11 – ST Stud



12 Cable and plug



14 – IND Industrial



15 – M6/M8 6 mm/8 mm Insert



16 – SLT Small L-terminal

VENTS



1 – BAYO



2 – FLIP



3 - MASTER

ABOUT DYNO EUROPE



Dyno Europe offers a complete range of batteries and accessories for the Access Industry

SEMI-TRACTION (EU) DYNO





Kit filler caps

300 CYCLES

FLAT PLATE

A semi-traction battery is almost identical to a traction battery, the big difference between the two is that a traction battery has more cycles, so lasts longer than a semi-traction battery.

These batteries must be able to supply a constant current for a long period of time. They have thicker lead plates and glass fiber separation what makes these batteries easier to discharge.

The Micro-porous rubber separators are a technical solution and thanks to a precise choice of materials used our batteries give the best performance and ensure proven reliability and long life.

Properties:

- Thicker plates
- Grid plates with radial geometry
- Active material with specific composition to resist the cyclical discharges
- Grids of Pb/Sb/Sn/As/Se alloy which improves corrosion resistance and improves the contact between the active material
- Microporous rubber separators with glass fiber mats to prevent the loss of active materials
- Up to 300 cycles

EUROPEANTYPES SEMI-TRACTION

Model	Type	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF		Old REF
		Ah	Ah	mm	mm	mm	kg				Kit filler caps*	Kit filler caps*
6 V												
9.080.1	Semi	100	80	231	176	222	14.0	0	1	167TA9932	-	_
9.095.2	Semi	120	96	260	175	221	17.0	0	1	134TA8592	-	_
9.180.1	Semi	240	197	244	190	274	29.4	0	1	167TA9946	167TA9947	BAT/47553
12 V												
9.540.1	Semi	50	40	207	175	190	12.4	0	1	167TA9954	-	_
9.550.2	Semi	60	50	242	175	190	16.0	0	1	167TA9955	_	_
9.560.2	Semi	75	60	278	175	190	18.6	0	1	167TA9933	_	_
9.555.1	Semi	70	50	270	175	220	17.2	1	1	167TA9934	-	_
9.575.1	Semi	90	75	353	175	190	24.0	0	1	167TA9935	-	_
9.575.1 MF	Semi MF	90	75	353	175	190	24.0	0	1	167TA9957	_	_
9.580.3	Semi	100	80	304	175	220	23.7	0	1	167TA9956	-	-
MF31DC	Semi MF	100	80	330	172	242	23.2	1	DT 1 + 8	167TA9958	_	_
9.580.4	Semi	105	90	345	175	230	26.0	0	1	167TA9937	-	_
9.590.3	Semi	120	90	304	175	220	24.0	0	1	167TA9938	_	_
9.820.0	Semi	135	100	360	253	240	37.5	0	1	167TA9960	167TA9948	BAT/47555
9.600.2	Semi	125	100	345	175	285	33.3	0	1	129TA8810	-	-
9.605.1	Semi	140	120	513	189	223	39.0	3	1	167TA9961	167TA9949	BAT/47556
9.605.1 MF	Semi MF	140	120	513	189	220	34.5	3	1	167TA9962	-	-
9.635.1	Semi	180	155	513	223	223	47.5	3	1	167TA9967	167TA9949	BAT/47556
9.680.1	Semi	230	190	518	274	242	59.0	3	1	167TA9939	167TA9950	BAT/47557

MF: maintenance-free

GYGLIG BATTERIES

PZS MONOBLOC DYNO





Monobloc traction batteries must be able to provide a constant current over a long period of time. The open lead-acid batteries do require some attention to maintenance, such as topping up the cells. This can be time-consuming and should not be forgotten, to help you with this, we also offer an automatic filling system (see below for more information). The positive plates of the monobloc traction batteries are specially made out of tube plates instead of flat plates.

Monobloc batteries combine a very high capacity with a maximum lifespan of 1200 cycles. This long life is due to the tubes or plates.

Properties:

- Premium tubular plate construction with free electrolyte ensure a long service life
- Accepts high discharge currents
- Perfect solution for applications that are used in difficult working conditions
- Reliable and sustainable
- Up to 1200 cycles

1200 CYCLES

TUBULAR PLATE

MONOBLOC TRACTION

Model	Туре	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF		Old REF
		Ah	Ah	mm	mm	mm	kg				Kit filler caps*	Kit filler caps*
6 V												
6PZS195	Traction	240	195	244	190	270	30.5	0	1	167TA9963	167TA9951	BAT/47558
6PZS205	Traction	250	210	244	190	270	32.4	0	1	167TA9964	167TA9951	BAT/47558
6PZS180	Traction	225	175	260	180	275	31.0	0	1	167TA9965	167TA9952	BAT/47572
PZS265	Traction	348	290	311	183	365	45.0	0	1	167TA9940	-	-
PZS320	Traction	390	320	311	183	365	50.0	0	1	167TA9966	167TA9947	BAT/47553
8 V												
PZS160	Traction	195	160	264	183	275	32.0	0	1	167TA9968	-	-
12 V												
2PZS38	Traction	50	36	205	175	190	13.5	0	1	167TA9969	-	-
2PZS36L2	Traction	50	36	240	175	190	14.0	0	1	167TA9970	-	_
3PZS57	Traction	60	55	278	175	190	18.9	0	1	167TA9971	-	_
2PZS56	Traction	68	56	265	175	210	20.0	0	1	167TA9972	-	_
PZS72	Traction	96	72	352	175	190	23.0	0	1	167TA9941	-	_
PZS80	Traction	105	80	352	174	215	28.0	0	1	167TA9974	-	_
3PZS75	Traction	110	90	303	175	228	28.7	0	1	167TA9975	-	-
4PZS90	Traction	115	95	344	172	234	30.0	0	1	134TA8609	167TA9953	BAT/47571
4PZS118	Traction	140	118	344	172	284	37.3	0	1	167TA9943	167TA9953	BAT/47571
4PZS126	Traction	146	126	510	175	225	39.0	4	1	167TA9944	167TA9949	BAT/47556
PZS150	Traction	183	150	510	222	225	47.0	4	1	167TA9976	167TA9953	BAT/47571

 $[\]hbox{*This kit is suitable for providing exactly one battery with the necessary filler caps and floats}\\$

LEAD CARBON





1000 CYCLES 80% DOD

MAINTENANCE-FREE

Standard lead-acid batteries have a big advantage over lithium batteries, namely a large discharge capacity (up to C3). But to counter sulphation that would greatly reduce the life of the battery, there is a much longer charge time with lead-acid batteries (up to 10 hours = 0.1). The new lead carbon technology offers the solution here.

The negative plates of these batteries are made from lead and carbon and thus combine the advantages of normal lead-acid batteries with those of a supercapacitor. The addition of carbon ensures that these batteries have a higher charge acceptance and therefore have to charge for less time than regular lead-acid batteries. Moreover, they provide more power and are more resistant to (extremely) low temperatures. By adding lead (pb) to the negative plate there is also less resistance, resulting in a longer lifespan. In addition, this latest technology suppresses sulphation better than any other technology.

Properties:

- Maintenance-free alternative for AGM and gel
- Better cycle life: > 1300 cycles (70% DoD) and up to 1000 cycles with 80% DoD
- Excellent performance in (extreme) low temperatures
- · Price-friendly
- Charging time is shorter than normal AGM
- Lead carbon batteries can be used with good performance without being charged 100%

Model	Alt	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF
		Ah	Ah	mm	mm	mm	kg			
6 V										
DLC6-200EV	GC2	205.0	173.5	260	181	266	30.3	0	M8	167TA9977
DLC6-225EV		226.0	190.5	243	188	275	32.0	0	M8	167TA9978
DLC6-330EV	S4	330.0	257.5	295	178	360	46.9	0	M8	167TA9979
DLC6-420EV	L16	428.0	334.0	295	179	424	59.0	0	M8	167TA9980
8 V										
DLC8-160EV		163.0	138.0	260	180	280	36.0	0	M8	167TA9981
12 V										
DLC12-55EV		59.5	50.5	229	138	208	17.5	1	M6	167TA9982
DLC12-80EV		86.4	71.5	258	168	214	26.4	1	M8	167TA9983
DLC12-100EV		108.6	92.0	330	171	219	32.0	1	M8	167TA9984
DLC12-135EV		145.0	120.5	340	173	286	45.0	1	M8	167TA9985
DLC12-200EV		216.0	182.5	522	240	222	59.0	4	M8	167TA9986
DLC12-250EV		270.0	228.0	520	268	223	70.5	4	M8	167TA9987

GYGLIG BATTERIES

ABOUT SONNENSCHEIN



Sonnenschein is part of the Exide group and is a leading manufacturer in the world of batteries. Sonnenschein is a pioneer in gel batteries and are extremely suitable for cyclic applications in numerous industrial applications as well as in wheelchairs, golf carts,...

GF-V series: very suitable for industrial use such as aerial work platforms, stackers and cleaning machines. GF-Y series: ideal for lighter applications such as scooters, wheelchairs and lower traction applications.

SONNENSCHEIN GF-Y RANGE (DRYFIT® A500 CYCLIC)



The GF-Y block battery range is particularly suitable for the leisure and mobility market (wheelchairs, scooters, golf carts and electric boats)

Main technical features and benefits:

- · Battery technology: VRLA (valve regulated lead-
- Maintenance-free (no topping up during the whole service life)
- · Very high intrinsic safety
- · Robust, safe and reliable
- Low self-discharge rate
- 450 cycles in accordance with IEC 60254-1
- Product range:
- 12 V block batteries
- 12 4 Ah up to 93.5 Ah (C5)15 Ah up to 110 Ah (C20)

TECHNICAL CHARACTERISTICS AND DATA

Model	Nominal capacity C5 (30°C)	Nominal capacity C20 (30°C)		width max	Height max	Weight	Terminal	Terminal position	REF
	Ah	Ah	mm	mm	mm	kg			
12 V									
GF12014YF	14	15	181	76	167	6	G-M5	3	167TA9998
GF12022YF	22.2	24	167	176	126	9.6	G-M5	3	167TA9999
GF12025YG	25	28	197	132	180	11.1	G-M5	2	168TA1000
GF12033Y1	32.5	38	210	175	175	14.6	A-terminal	3	168TA1001
GF12033YG1	32.5	38	210	175	175	14.6	G-M6	3	168TA1002
GF12033YG2	32.5	38	210	175	175	14.6	G-M6	3	168TA1003
GF12040Y	40	48	242	175	190	17.5	A-terminal	3	168TA1004
GF12044Y	44	50	261	135	230	19	A-terminal	3	168TA1005
GF12051Y1	51	56	278	175	190	20.8	A-terminal	3	168TA1006
GF12051Y2	51	56	278	175	190	20.8	A-terminal	3	168TA1078
GF12051YG1	51	56	278	175	190	20.8	G-M6	3	168TA1007
GF12052YO	52.7	60	261	170	178	19.8	F-M6	2	168TA1008
GF12063YO	63	70	261	171	210	23	F-M6	2	168TA1009
GF12065Y	65	78	363	175	190	26.8	A-terminal	3	168TA1010
GF12072Y	72	80	330	171	236	30	A-terminal	2	168TA1011
GF12094Y	93.5	110	286	269	230	38.5	A-terminal	1	168TA1012

















SONNENSCHEIN GF-V RANGE (DRYFIT® TRACTION BLOCK)





The GF-V block battery range is designed for hard industrial use. This includes applications such as cleaning machines, pallet trucks, automatic guided vehicles, mobile elevating work platforms, electric cars and buses.

Main technical features and benefits:

- Battery technology: VRLA (valve regulated leadacid)
- Maintenance-free (no topping up during the whole service life)
- · Very high intrinsic safety
- · Robust, safe and reliable
- Low self-discharge rate
 700 cycles in accordance with IEC 60254-1
- · Product range:
- 6 V and 12 V block batteries
- 50 Ah up to 240 Ah (C5)
- 55 Ah up to 270 Ah (C20)

TECHNICAL CHARACTERISTICS AND DATA

Model	Nominal capacity C5 (30°C)	Nominal capacity C20 (30°C)	Length max	width max	Height max	Weight	Terminal	Terminal position	REF
	Ah	Ah	mm	mm	mm	kg			
6 V									
GF06160V1	160	196	246	192	275	29	A-terminal	1	152TA5769
GF160180V	180	200	246	192	275	31	A-terminal	1	152TA4411
GF06180VQ	180	200	246	192	284	31.5	F-M10	1	168TA1013
GF06240V	240	270	311	183	258	47	A-terminal	1	168TA1014
12 V									
GF12050V	50	55	278	175	190	19	A-terminal	3	168TA1015
GF12050VG	50	55	278	175	190	19	G-M6	3	168TA1016
GF12076V	76	86	330	171	236	28.8	A-terminal	2	168TA1017
GF12090V	90	98	513	189	219	36.5	A-terminal	4	168TA1018
GF12105V	105	120	345	174	283	37.5	A-terminal	3	152TA5273
GF12110V	110	120	513	223	219	45.5	A-terminal	4	168TA1019
GF12160V	160	196	518	274	238	62.5	A-terminal	4	168TA1020

















GYGLIG BATTERIES

GEL BATTERIES







Gel batteries are cyclic and just like AGM batteries completely closed and maintenance-free. As the name says, gel is added to the acid. Thus the electrolyte forms a gel-like substance that can not leak.

Due to this method of construction, the battery is leak-proof and no gas can form during normal use. The small amount of gas that can be generated is flown back to the electrolyte, just like with the AGM batteries. This way, the battery never needs to be refilled and should not be ventilated.

Gel batteries are more expensive than AGM batteries but they also have a longer lifespan and they can tolerate more loads.

Properties:

- Longer lifespan: up to 700 cycles
- Recovers completely from deep discharges, even when the battery isn't recharged immediately
- Perfect for cyclic use with daily charges/ discharges
- Perfect performances with long-lasting discharges
- Resists better with higher temperatures
- Sulfation (stratification) is impossible thanks to the gel
- Limited self-discharge
- Accepts the charge better thanks to the lower intern resistance
- Can be discharged, even when it isn't fully charged, without capacity loss
- Maintenance-free



REF 168TA1094





Automot. adaptor M6 REF 144TA1868



Automot. adaptor M8 REF 144TA1869

Model	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF
	Ah	Ah	mm	mm	mm	kg			
6 V									
DGY6-110EV	100.0	86.0	194	170	212	16.5	1	M8	134TA8621
DGY6-160EV	189.0	157.0	298	171	229	26.9	1	M8	168TA1021
DGY6-180EV*	210.0	187.0	260	180	276	29.5	0	M8 + 1	168TA1022
DGY6-200EV	248.0	220.0	322	178	231	34.0	1	M8	168TA1023
DGY6-225EV	242.0	205.5	243	188	275	32.0	0	1	152TA4642
8 V									
DGY8-180EV	157.0	128.0	260	182	298	36.4	1	DT 1 + 8	134TA8625
12 V									
DGY12-7.5EV	8.5	7.9	151	65	103	2.3	3	T1	168TA1024
DGY12-13EV	12.0	10.4	151	98	100	3.8	3	T2	168TA1025
DGY12-18EV	18.0	15.6	181	77	167	5.5	0	M5	168TA1026
DGY12-26EV	26.0	22.1	166	176	125	8.0	0	M5	168TA1027
DGY12-33EV	36.4	28.3	195	130	160	10.2	1	M6	168TA1028
DGY12-44EV	45.4	36.8	198	167	158	13.5	0	M6	168TA1029
DGY12-55EV	59.0	49.1	229	138	208	16.5	1	M6	134TA8630
DGY12-60EV	71.6	57.7	260	168	180	22.1	1	M6	168TA1030
DGY12-65EV	75.0	61.1	279	175	190	22.7	0	M6	168TA1031
DGY12-65EV-A pol	75.0	61.1	279	175	195	22.7	0	1	168TA1032
DGY12-69EV	86.6	69.3	250	150	401	30.4	1	M8	168TA1033
DGY12-70JEV	69.6	58.5	350	166	175	21.0	0	M6	134TA8632
DGY12-80EV-M6	86.8	77.0	260	168	210	24.0	1	M6	168TA1034
DGY12-100EV	105.0	99.0	307	168	214	30.7	1	M8	168TA1035
DGY12-110EV	123.0	110.0	330	172	214	32.0	1	M8	134TA8635
DGY12-135EV-M6	166.8	148.5	340	173	286	45.0	1	M6	168TA1036
DGY12-150EV	161.4	136.5	483	170	241	45.0	1	M8	134TA8639
DGY12-160EV	180.0	155.0	532	207	219	53.0	4	M8	134TA8640
DGY12-200EV	214.0	178.5	522	240	222	62.5	4	M8	134TA8641
DGY12-225EV	263.0	216.0	521	269	208	74.5	4	M8	134TA8642
Model	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF
e v	Ah	Ah	mm	mm	mm	kg			
6 V DGY6-225DEV	205.0	175.0	242	190	275	34.0	0	1	168TA1037
12 V	203.0	173.0		130		34.0		<u>'</u>	100141037
DGY12-30DEV	30.0	24.0	197	132	186	11.7	1	F	134TA8627
DGY12-30DEV	40.0	29.0	210	175	175	15.0	0	F	168TA1038
DGY12-40DEV	60.0	50.0	278	175	190	21.3	0	1	168TA1039
DGY12-80DEV	80.0	70.0	353	175	190	25.8	0	1	168TA1040
DGY12-85DEV	85.0	75.0	352	175	232	28.4	0	1	168TA1041
DGY12-03DEV	110.0	90.0	286	269	230	38.7	2	1	168TA1041
DGY12-110DEV	120.0	95.0	513	189	223	40.0	3	1	168TA1042
DGY12-120DEV	120.0	105.0	345	171	285	41.0	0	1	
								1	168TA1044
DGY12-140DEV	150.0	130.0	514	223	222	53.8	3		134TA8638
DGY12-210DEV	200.0	165.0	517	270	240	71.0	3	1	168TA1045

DISCOVER AGM/GEL





ABOUT DISCOVER

Discover battery makes batteries that thrive in real-world applications.

What began as a regional battery distribution business in 1949 has grown into an international manufacturing and engineering company that provides leading-edge battery technology for transportation, motive power, and energy storage industries.

Discover battery's high value lead-acid and lithium power solutions are engineered and purpose-built with award-winning patented technology and industry-leading power electronics.

Discover battery makes our products available through the best knowledge-based distribution and service organizations for the people and businesses who rely on batteries to work, live, or get away.

AGM traction/industrial deep-cycle batteries outperform traditional flooded, AGM, and gel batteries in demanding traction and industrial applications. Dry cell batteries are designed to deliver long high operating current runtime and to be regularly cycled to >50% DOD when proper charging sources are available.

Dry cell AGM key benefits:

- Ideal for deep-cycle applications with an emphasis on long high discharge run-times
- Sealed valve regulated. Non spill-able
- Compressed AGM cells for extreme vibration resistance
- Repeated high rate deep-cycles up to 80% DOD
- Maintenance-free. Unrestricted transport
- Enhanced safety with built-in flame arrestor
- Built-in handles

HIGH BATTERY CAPACITY

LONG RUN-TIMES

С3

Dry cell AGM traction/industrial

Trusted by OEMs around the world, dry cell

Length Width Height Weight Layout/ Terminals REF

DRY CELLTRACTION/INDUSTRIAL

C5

C20

Model

	1.80 VPC 25 °C	1.75 VPC 25 °C	1.70 VPC 25 °C	(L)	(W)	(H)*	Weight	polarity	Terminais		•	
	Ah	Ah	Ah	mm	mm	mm	kg					
6 V												
EVGC6A-A	220	190	170	260	180	254	30	2	AM	167TA8663		
EVGT6A-A	260	222	200	260	180	276	35	2	M8	167TA8665		
EV506A-230	230	200	170	244	189	254	32	2	M8	167TA8666	•	\top
EV305A-A	330	290	260	295	180	345	46	2	AM	167TA8667	2	
EVL16A-A	390	340	295	295	180	383	53	2	AM	167TA8668		
12 V												
EVU1A-A	33	30	27	195	130	169	11	1	M6	167TA8676	- P	
EV22A-A	58	50	44	229	138	210	18	1	M6	167TA8678	3	
EV34A-A	65	55	48	258	167	178	20	1	SAE	167TA8679		
EV512A-70	68	60	51	278	175	190	22	0	SAE	167TA8681		\top
EV512A-90	87	80	68	350	175	190	27	0	SAE	167TA8682	4	+
EV24A-A	85	72	66	258	172	214	24	1	AM	167TA8683		
EV24LA-A	85	72	66	261	172	206	24	1	M6	167TA8684		
EV27A-A	100	90	80	308	172	212	29	1	AM	167TA8685		1
EV31A-A	120	98	92	330	172	216	33	1	AM	167TA8686	SAE	h
EV12A-A	145	125	110	327	180	254	40	1	AM	167TA8688	P	
EV512A-150	150	130	117	341	173	284	42	1	M8	167TA8690		
EV185A-A	230	200	175	386	178	352	62	1	AM	167TA8692		_ @
EV4DA-A	235	200	175	524	225	222	63	4	AT	167TA8693		
EV8DA-A	280	240	215	522	275	222	78	4	AT	167TA8695		~_
Model	C20 1.80 VPC 25 °C	C5 1.75 VPC 25 °C	C3 1.70 VPC 25 °C	Length (L)	Width (W)	Height (H)*	Weight	Layout/ polarity	Terminals	REF	D	
	Ah	Ah	Ah	mm	mm	mm	kg					
6 V												
EV506G-180	210	180	162	244	189	271	32	2	SAE	168TA7918		
	210	100	102									
EV506G-250	290	250	235	293	180	343	46	2	AM	168TA7919	\mathbf{M}	
							46	2	AM	<u>168TA7919</u>	M (S)	
EV506G-250			235			343 169	11	1	AM M6	168TA7919 168TA8012		
EV506G-250 12 V	290	250	235	293	180						M (S)	
EV506G-250 12 V EV512G-028	290	250	235	293 195	180	169	11	1	M6	168TA8012	F (
EV506G-250 12 V EV512G-028 EV512RG-044	290 33 55	250 28 45	235 24 42	293 195 229	180 130 138	169 208	11 18	1 0	M6 M6	168TA8012 168TA7921	F (
EV506G-250 12 V EV512G-028 EV512RG-044 EV512RG-050	290 33 55 61	250 28 45 50	235 24 42 46	195 229 258	130 138 167	169 208 178	11 18 19	1 0 0	M6 M6 SAE	168TA8012 168TA7921 168TA7922	F E	

^{*} Height refers to the distance from the bottom to the top of the case, and does not include the terminals.

GYCLIG BATTERIES

AGM BATTERIES





MAINTENANCE-FREE

AGM batteries are built differently than open lead-acid batteries. In AGM batteries there is a fiberglass mat between the plates that is saturated with acid/electrolyte. This mat is packed between the plates and compressed. This ensures a super-fast reaction between the acid and the plates. Because the sheets and mats are tightly packed, they are almost immune to vibrations.

This type of battery is maintenance-free and in normal use there is no gas formation. The little gas that would still occur is returned to the electrolyte, so the batteries should never be refilled. Also no ventilation is needed and for safety there is an overpressure valve on the battery. The batteries can be installed in any position, except upside down.

Due to the high production cost these batteries are a lot more expensive than open lead-acid batteries, but still cheaper than gel batteries.

Properties:

- Sealed lead-acid batteries
- Can be used in any position
- · Cheaper than a gel battery
- Better performance with a shorter duration/ higher current discharge
- A smaller battery size can be used for higher discharge
- Absorbed Glass Mat Technology (= AGM)
- Up to 500 cycles

Model	C20	C5	Length	Width	Height	Weight	Layout	Terminals	REF
	Ah	Ah	mm	mm	mm	kg			
6 V									
DAB6-110EV	100.0	86.0	194	170	212	16.5	1	M8	134TA8663
DAB6-160EV	178.0	145.0	298	171	229	26.4	1	M8	134TA8664
DAB6-180EV*	210.0	187.0	260	180	250	29.5	0	M8	134TA8665
DAB6-200EV	248.0	220.0	322	178	231	34.0	1	M8	134TA8666
DAB6-225EV	242.0	205.0	243	188	275	32.0	0	M8	134TA8667
DAB6-270EV	272.0	242.0	260	180	273	35.0	0	M8	168TA1079
8 V									
DAB8-160EV	161.0	131.0	260	182	298	36.8	1	M8	134TA8668
12 V									
DAB12-7.5EV	9.6	8.5	151	65	103	2.6	3	T1	168TA1080
DAB12-14EV	16.4	14.5	151	99	100	4.4	3	T2	134TA8669
DAB12-18EV-HD	27.2	24.2	181	77	170	6.9	0	M5	168TA1081
DAB12-26EV	26.0	22.6	166	175	125	7.7	0	M5	134TA8672
DAB12-26EV-HD**	33.6	28.0	168	178	124	8.9	0	M5	168TA1082
DAB12-28EV	28.0	24.3	165	125	175	8.0	0	M5	134TA8673
DAB12-32EV	39.6	35.2	267	77	170	9.2	0	M5	168TA1083
DAB12-33EV	34.0	28.0	196	131	160	10.0	1	M6	134TA8674
DAB12-33EV-HD	41.1	35.7	195	130	163	11.6	1	M6	168TA1084
DAB12-44EV	46.2	37.7	198	167	158	13.0	0	M6	134TA8675
DAB12-44EV-HD	52.0	46.0	197	165	175	14.5	0	М6	168TA1085
DAB12-60DEV	60.0	45.0	242	175	190	17.9	0	1	168TA1086
DAB12-55EV	56.2	44.5	229	138	212	16.0	1	M6	142TA3204
DAB12-70DEV	70.0	55.0	278	175	190	20.5	0	1	168TA1087
DAB12-70JEV	70.0	59.0	350	166	175	21.0	0	M6	168TA1088
DAB12-80DEV	80.0	60.0	315	175	190	23.2	0	1	168TA1089
DAB12-80EV-M6	99.0	88.0	260	168	210	26.0	1	M6	168TA1090
DAB12-95DEV	95.0	70.0	353	175	190	26.0	0	1	168TA1091
DAB12-100EV	103.2	82.0	307	168	211	30.7	1	M8	168TA1092
DAB12-110EV	129.8	115.5	330	172	214	33.5	1	M8	134TA8681
DAB12-120EV	128.0	109.0	409	177	227	37.0	1	M8	134TA8682
DAB12-135EV	166.8	148.5	336	172	279	45.0	1	M8	134TA8683
DAB12-150EV	185.6	165.0	481	170	239	50.0	1	M8	134TA8684
DAB12-160EV	180.0	155.0	532	207	219	51.0	4	M8	134TA8685
DAB12-200EV	225.0	190.5	522	240	222	61.5	4	M8	134TA8686
DAB12-230EV	254.0	208.0	521	270	208	74.0	4	M8	134TA8687



J-type adaptor M6 REF <u>168TA1093</u>



Automot. adaptor M6 REF <u>144TA1868</u>

Automot. adaptor M8 REF <u>144TA1869</u>



M6 to M8 adaptor (reversable) REF <u>168TA1094</u>