





Moving Energy

Batteries, Battery chargers and Accessories

We are a Company specialized in the distribution and processing of exclusive products in the field of batteries.

A single partner saves time and money.



The central warehouse

is equipped with an integrated logistics system to 2500 pallet spaces, to deliver shipments within 24 hours of receiving your order.



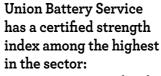
Not only a quality battery but also a correct battery charger along with the best accessories to ensure energy over time.



All products on the catalogue are managed in stock. Distributors have access to our availabilities in real time.



The REGENERATION of the batteries with WARRANTY is an absolute innovation in the field.



98%

Customer Satisfaction

98% of our customers

are satisfied with our

service and products.

we are not interested in the hit and run, but in following our customers over time.

ENERGY, EVERYWHERE, ALWAYS, SOON











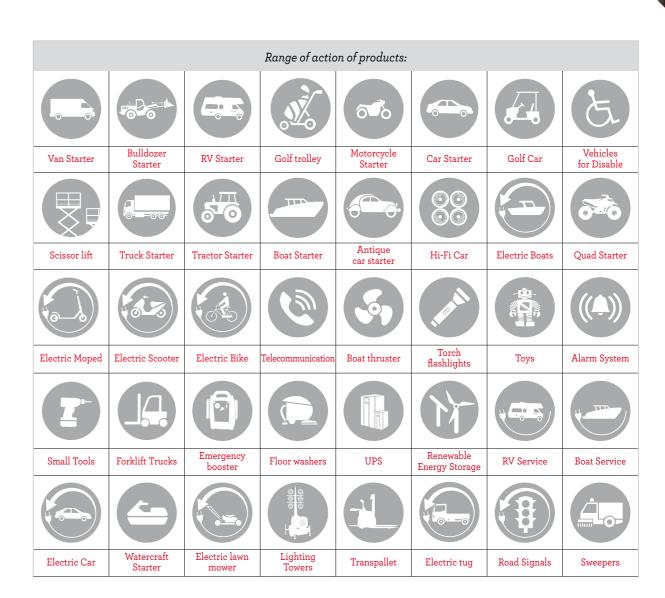
OFF LINE

Commercial Assistance

The sales department is at complete disposal to ensure customers timely and complete responses, make quotations and place prompt orders.

ON LINE

The new website contains any technical information necessary for the purchase. A search engine will guide you to choose the right battery; detailed data sheets on each product can be downloaded immediately.















AGM SEALED BATTERIES







Zenith ZGL

APPLICATIONS

- UPS
- Toys
- Marine/RV
- Alarm System
- Telecommunication

This series of batteries is not suitable for cyclic applications.

If used in boating / RV applications, the battery pack capacity must be sized so that the discharge current does not exceed 0.2C/20h (i.e. Max. 20A discharge of 100Ah / 20h of battery). This allows the battery to gain a reasonable autonomy and more acceptable battery life.

• Never discharge more than 80%. Deeper discharges void any warranty



















CODE	v	CAPA	CITY		IMENSI	ONS (mm	1)	TERMINAL	WEIGHT	PALLET
CODE	V	Ah/20h	Ah/5h	L	W	Н	TOTAL H	TERMINAL	(KG)	QUANT.
Battery 6V										
ZGL060005	6	3,20	2,55	134,0	34,5	61,0	67,0	F1	0,65	600
ZGL060016	6	5,00	4,25	70,0	47,0	100,0	107,0	F1	0,75	420
ZGL060020	6	7,00	5,95	151,0	34,0	94,0	100,0	F1	1,10	420
ZGL060024	6	10,00	7,40	151,0	50,0	93,0	98,0	F1	1,67	420
ZGL060026	6	12,00	10,20	151,0	50,0	93,0	98,0	F1	1,86	264
ZGL060029	6	20,00	16,00	162,0	83,0	126,0	126,0	F3	3,50	264

ZGL120005	12	1,20	1,02	97,0	43,0	52,0	58,0	F1	0,60	420
ZGL120010	12	2,00	1,70	178,0	35,0	60,0	66,0	F1	0,87	420
ZGL120014	12	2,40	1,94	178,0	35,0	61,0	67,0	F1	0,97	420
ZGL120020	12	3,20	2,45	134,0	67,0	59,5	66,0	F1	1,30	420
ZGL120024	12	5,00	4,45	90,0	70,0	101,0	107,0	F1	1,54	420
ZGL120026	12	7,20	6,12	151,0	65,0	93,5	100,0	F1	2,10	360
ZGL120027	12	7,20	6,12	151,0	65,0	93,5	100,0	F2	2,10	360
ZGL120028	12	8,50	6,95	151,0	65,0	94,0	100,0	F2	2,30	360
ZGL120032	12	12,00	10,70	151,0	99,0	95,0	101,0	F2	3,40	200
ZGL120034	12	18,00	16,00	181,0	77,0	167,0	167,0	M5	5,60	128
ZGL120035	12	18,00	15,30	180,0	75,0	167,0	167,0	F3	5,50	128
ZGL120036	12	22,00	18,70	181,0	77,0	167,0	167,0	M5	6,35	128



ZGL120042	12	26,00	24,00	165,0	176,0	125,0	125,0	M6	8,20	80
ZGL120048	12	35,00	29,80	193,5	130,0	166,5	166,5	M6	10,50	75
ZGL120054	12	45,00	38,30	198,0	166,0	171,0	171,0	M6	13,50	60
ZGL120058	12	55,00	48,00	230.0	138,0	210,0	215,0	M6	17,30	60
ZGL120062	12	65,00	57,00	349,5	166,0	174,0	174,0	M6	23,00	48
ZGL120070	12	80,00	68,00	260,0	169,0	211,0	215,0	M6	24,50	36
ZGL120073	12	90,00	75,00	349,5	166,0	174,0	174,0	M6	24,00	48
ZGL120077	12	100,00	83,00	306,0	169,0	210,0	215,0	M8	29,00	36
ZGL120078	12	100,00	85,00	328,0	172,0	215,0	219,0	M8	31,00	36



Battery 12V	from	12UAh	to 26UAh	

Battery 12V from 26Ah to 100Ah

Battery 12V to 22Ah

ZGL120085	12	120,00	102,00	327,0	172,0	217,0	222,0	M8	31,20	36
ZGL120086	12	135,00	118,00	341,0	173,0	283,0	287,0	M8	40,00	24
ZGL120088	12	160,00	136,00	483,0	170,0	240,0	240,0	M8	46,00	24
ZGL120092	12	200,00	170,00	530,0	209,0	215,0	219,0	M8	52,00	18
ZGL120094	12	210,00	178,50	522,0	238,0	218,0	220,0	M8	61,00	18
ZGL120096	12	240,00	204,00	522,0	238,0	218,0	220,0	M8	64,50	12
ZGL120098	12	260,00	221,00	520,0	269,0	223,0	228,0	M8	73,20	12

• for details refer to the data sheets on our website



AGM SEALED BATTERIES

Zenith ZL DEEP-CYCLE

APPLICATIONS

- Scrubbers
- Sweepers
- Golf cars
- Electric Boats
- Electric Scooters
- Renewable Energy
- Vehicles for Disables
- _____
- All electric vehicles
- Marine
- RV Service
- Lighting towers

- See battery data sheets for proper charge cycle and charger set-up
- Never discharge more than 80%. Deeper discharges void any warranty

























CAPACITY



VG (
1º 100	To

CODE USA		v						,	TEDAMBIAL	WEIGHT	PALLET	
CODE	MODEL	V	Ah/20h	Ah/5h	L	w	Н	Total H	TERMINAL	(Kg)	QUANTITY	
Battery 6V-8	V											
ZL060100	-	6	200	170	306,0	169,0	220,0	226,0	M8	27,0	36	
ZL060110	GC105	6	225	182	260,0	180,0	269,0	275,0	M8	30,5	36	
ZL060113	GC125	6	240	192	260,0	180,0	270,0	275,0	M8	32,0	36	
ZL060115	DIN	6	245	200	245,0	187,0	275,0	275,0	M8	32,0	36	
ZL060116	DIN	6	245	200	245,0	187,0	275,0	275,0	AP	32,0	36	
ZL060125	305	6	335	275	295,0	178,0	345,0	368,0	DT	45,0	22	
ZL060130	L16	6	410	320	295,0	180,0	405,0	425,0	DT	55,0	22	
ZL080110	GC875	8	180	150	261,0	182,0	270,0	275,0	M8	34,0	24	

DIMENSIONS (mm)



ZL120110	-	12	13	11	151,0	99,0	95,0	101,0	F2	4,2	200
ZL120115	-	12	18	16	181,0	77,0	167,0	167,0	M5	5,7	128
ZL120120	-	12	24	18	181,0	77,0	167,0	167,0	M5	5,8	128
ZL120130	-	12	26	22	165,0	174,0	125,0	125,0	M6	8,4	80
ZL120135	-	12	36	28	196,0	131,0	145,0	165,0	M6	10,8	75
ZL120150	-	12	45	35	198,0	166,0	174,0	174,0	M6	14,5	60



Battery 12V f	rom 55Ah	to 13	0Ah								
ZL120155	-	12	55	47	230,0	138,0	210,0	215,0	M6	18,3	60
ZL120165	-	12	75	65	349,5	166,0	174,0	174,0	M6	23,0	48
ZL120175	24	12	86	76	260,0	169,0	215,0	219,0	M6	26,0	48
ZL120185	27	12	110	90	306,0	170,0	210,0	215,0	M8	30,5	36

130 105 331,0 175,0 217,0 223,0

Battery 12V from 140Ah to 260Ah

ZL120190

Battery 12V to 45Ah

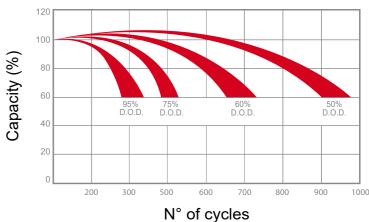


ZL1201105	DIN	12	140	115	340,0	172,0	280,0	285,0	M8	39,5	24
ZL1201106	DIN	12	140	115	340,0	172,0	280,0	300,0	AP	39,5	24
ZL1201115	-	12	160	125	484,0	171,0	241,0	241,0	M8	46,0	24
ZL1201120	4D	12	200	160	532,0	206,0	216,0	221,0	M8	59,6	18
ZL1201135	4D	12	220	180	522,0	240,0	219,0	224,0	M8	65,8	18
ZL1201145	8D	12	260	215	521,0	269,0	220,0	228,0	M8	77,8	12

[•] for details refer to the data sheets on our website

12

Charge cycles (25°C, discharge 5h)



. . . .

D.O.D.

To consult the terminals, go to page 23

33,0

AGM SEALED BATTERIES



AGM SEALED BATTERIES



Zenith ZLS LONGLIFE/ DEEP-CYCLE

APPLICATIONS

- Scrubbers
- Sweepers
- Electric Boats
- Electric Scooters
- Electric bike
- · Vehicles for Disables

WARRANTY*

24months

- Renewable Energy
- Road signals

WHY CHOOSING A ZLS BATTERY?

- 20% lifetime cycle more than ZL series
- Innovative solution to reduce the negative effects of stratification
- Specific design increasing performance for the discharge in 2 hrs













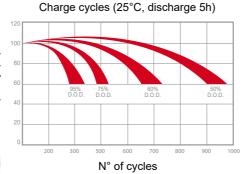












D.O.D.

CODE	USA		CAPACITY				DIMENSI	ONS (mm)		TEDMINIAL	WEIGHT	PALLET OUANTI-	
CODE	MODEL	\ \	Ah/20h	Ah/5h	Ah/2h	L	w	Н	Total H	TERMINAL	(Kg)	TY	
ZLS120110	-	12	16,5	13,5	12	151	99	97	101	F2	4,3	200	
ZLS120120	-	12	28	23	20	181	77	170	172	M5	6,2	128	
ZLS120130	-	12	33	27	24	166	175	126	126	M6	9,5	80	
ZLS120135	-	12	36	29	27	193,5	130	145	165	M6	10,8	75	
ZLS120150	-	12	45	35	32	197	166	170,5	170,5	M6	14,3	60	
ZLS120160	DIN	12	60	49	43	265	166	188	188	AP	20,7	48	
ZLS120175	24	12	85	70	60	260	169	215	219	M6	26,0	48	
ZLS120185	27	12	105	85	71	307	169	211	215	M8	30,0	36	
ZLS120190	31	12	120	110	88	332	176	214	218	M8	34,3	30	
ZLS1201105	DIN	12	135	110	95	344	172	280	280	M8	46,0	24	
ZLS1201115	-	12	190	165	133	485	170	241	241	M8	53,0	24	
ZLS1201120	4D	12	200	160	141	532	206	216	221	M8	59,6	18	
ZLS1201145	8D	12	260	213	183	521	269	220	224	M8	77,8	12	

• for details refer to the data sheets on our website

8 | Batteries | Union Battery Service |

To consult the terminals, go to page 23

Zenith ZPC HIGH CRANKING CURRENT

APPLICATIONS

- · Booster/starter
- Starter: Start/Stop Car; Antique Car; Boats; RV; Farm machinery; Military vehicles; Trucks
- · Boat thruster
- · Hi-Fi car

WHY CHOOSING A ZPC BATTERY?

- 30% cranking power more than normal starter batteries
- AGM technology for increased resistance to vibration
- Hybrid: **in some cases**, they can also be used for deep-cycle use

















CODE	.,	CAPACITY	CRANKIN	IG "EN"	PHCA		DIMENSI	ONS (n	nm)	TERMINIAL	DOL	WEIGHT	PALLET
CODE	V	Ah/20h	CCA (-18°C)	CA (0°C)	5 sec. AMP	L	w	Н	Total H	TERMINAL	POL.	(Kg)	QUANTITY
ZPC120013	12	15	180	230	545	176	86	132	132	M5	DX	5,0	160
ZPC120020	12	20	230	310	680	181	77	167	167	M6	DX	7,0	144
ZPC120025	12	28	410	530	925	165	176	125	125	M8	DX	10,7	84
ZPC120030	12	30	450	550	950	250	97	142	156	M6	DX	10,0	75
ZPC120032	12	35	438	525	975	196	131	167	167	M6	DX	12,1	75
ZPC120040	12	44	560	725	1200	198	166	170	170	M8	DX	15,1	66
ZPC120051	12	65	825	1000	1500	260	171	185	207	AP	SX	20,9	42
ZPC120065	12	100	965	1170	1950	307	169	214	237	DT	SX	32,2	36
ZPC120075	12	110	1100	1360	2200	330	173	214	237	DT	DX	34,6	36
ZPC120100	12	200	1050	1300	-	530	206	213	230	AP	SX	57	18
ZPC120110	12	260	1200	1500	-	510	267	228	245	AP	SX	72	12

• for details refer to the data sheets on our website





LEAD ACID BATTERIES



Trojan LEAD ACID DEEP-CYCLE



CODE	MODEL	RESERVE OF C	APACITY (min)	CAPA	CITY	TERMINAL	DIME	NSIONS (mm)	WEIGHT	PALLET
CODE	MODEL	25 Amps	75 Amps	Ah/20h	Ah/5h	TERMINAL	L	W	Н	(Kg)	QUANTITY
				Деер	Cycle - 6v						
TJ060100	T-105 +	447	115	225	185	ELPT	262	181	281	28	32
TJ060110	T-125 +	488	132	240	195	ELPT	262	181	281	30	32
TJ060120	T-145 +	530	145	260	215	ELPT	262	181	302	33	30
TJ060130	TE-35	500	135	245	201	AP	244	191	269	31	32
TJ060135	J305G-AC	678	175	315	258	UT	314	174	366	40	15
TJ060140	J305P-AC	711	195	330	271	DT	296	176	366	44	15
TJ060145	L 16G-AC	789	200	390	320	UT	313	174	417	46	14
TJ060150	L 16P-AC	850	220	420	344	DT	296	176	425	52	14
				Деер	Cycle - 8V						
TJ080100	T-875	295	117	170	145	ELPT	260	180	283	29	32
				Деер	Cycle - 12V						
TJ120145	T1275 +	280	70	150	120	ELPT	329	181	272	39	24

Trojan Silver LEAD ACID DEEP-CYCLE

APPLICATIONS

- Floor washers
- Sweepers
- Golf cars
- Scissor lift



















CODE	MODEL	v	BACKUP CA	APACITY (min)	CAPA	ACITY	TERMINAL	DIME	NSION (r	nm)	WEIGHT	PALLET
CODE	I-IODEE		25 Amps	75 Amps	Ah/5h	Ah/20h	TERMINAL	L	W	Н	(Kg)	QUANTITY
TJS060100	S-105	6	390	105	175	215	ELPT	262	181	273	26	32
TJS060135	S-305	6	624	155	242	295	EUTR	314	174	366	38	15
TJS060145	S-16	6	749	181	269	362	EUTR	313	174	417	45	14
				Trac	tion deep-	cycle 8 vo	lt					
TJS080100	S-875	8	290	117	135	165	ELPT	259	180	272	28	32

• for details refer to the data sheets on our website

To consult the terminals, go to page 23



LITHIUM LIFEPO4 BATTERY PACKS





Zenith LITHIUM

LITHIUM BATTERIES

APPLICATIONS

- Electric Vehicles
- Golf Cars
- Vehicles for Disables
- Cleaning Machines
- Transpallets
- Electric Boats
- RV
- Electric Tools
- Renewable Energy



MAINTENANCE FREE: maintenance is not required.

SUPERIOR LIFETIME: the number of charge-discharge cycles is considerably higher than lead-acid batteries, so "cost per cycles" is lower.

LIGHT: they are up to 70% lighter than lead-acid batteries. Only a minimum amount of the whole battery energy is employed to move the battery itself so the vehicle autonomy is greater .

FAST CHARGE: they can be fully charged in 1hr (**always** use the proper battery charger). Vehicles, where they will be installed, will increase their productivity/autonomy.

- The capacity is constant in lithium battery; it does not change as the discharge current rate varies (see the table)
- Always ask the UNION BATTERY SERVICE authorization if you want to use them in series or parallel





















▶LITHIUM BATTERY PACKS "LIFePO4", COMPLETE WITH ELECTRONIC CONTROL PCM/BMS

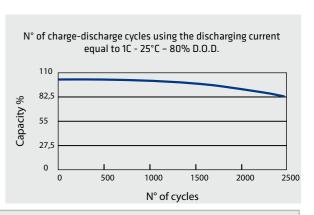
			DIMEN	ISIONS	(mm)				DISC	HARGE		CAF	RICA	
CODE	V	Ah	L	w	н	TERMINAL	CERTIFICATION UN 38.3	min voltage	max constant current	max current spike	max spike dura- tion	max voltage	max current	WEIGHT
								Volt	Amp	Amp	Secondi	Volt	Amp	Kg
ZLI012030	12	40	195	165	170	M8	NO	<10	50	170	2	14,6	40	6,4
ZLI012040	12	60	260	167	225	M8	NO	<10	50	170	2	14,6	50	9,3
ZLI012050	12	100	305	165	215	M8	SI	<10	100	350	2	14,6	100	13,1
ZLI024020	24	25	195	165	170	M8	NO	<20	40	170	2	29,2	40	6,4
ZLI024035	24	50	302	165	220	M8	SI	<20	50	300	2	29,2	50	12,8
ZL1024060	24	100	490	170	245	M8	NO	<20	100	300	2	29,2	100	26,2

• for details refer to the data sheets on our website

To consult the terminals, go to page 23

SUITABLE BATTERY CHARGERS

CODE BATTERY	Model	Time	Model	Time
ZLI012030	ZBC1215.LI	2h 50min		
ZLI012040	ZBC1215.LI	4h 15min		
ZLI012050	ZBC1215.LI	7h		
ZL1024020	ZBC02405.LI	5h 20min	ZBC02415.LI	1h 50min
ZL1024035	ZBC02415.LI	3h 30min	ZHF2430.LH	1h 50min
ZL1024060	ZBC02415.LI	7h	ZHF2430.LH	3h 40min



Comparative Table AGM-LITHIUM In order to facilitate the correct

dimensioning

	NOMINAL CAPACIT	Y = REAL CAPACITY	
6		Estimate autonomy	
Constant current discharge	ZL120185 (12V 110Ah/20h)	ZLI12050 (12V/100Ah)	ZLI12040 (12V 60Ah)
5Amp	20,0h	20,0h	12,0h
10Amp	9,4h	10,0h	6,0h
20Amp	4,0h	5,0h	3,0h
30Amp	2,1h	3,3h	2,0h
40Amp	1,5h	2,5h	1,5h
50Amp	50min	120min	70min
60Amp	40min	100min	N.C*
80Amp	25min	75min	N.C*
100Amp	20min	60min	N.C*
		N.C*: Discharge current is not	suitable with BMS/PCM

▶ Battery chargers for Zenith LITHIUM





CODE		ОИТІ	PUT	RECHARGEABLE CAPACITY ZENITH LITHIUM		AL	IMEN	TATION				WEIGHT	DIMEN	NSION ((mm)
CODE	V	Α	battery plug	v	V	A (240)	w	cable alim.	Hz	PFC	IP	(Kg)	L	W	Н
ZBC1215.LI*	12	15	SB30	40Ah - 60Ah - 100Ah	220-240	-	280	yes	50/60	no	IP32	1,8	260	135	72
ZBC02405.LI*	24	5	SB30	25Ah - 50Ah	100-260	1,1	150	yes	50/60	no	IP30	0,65	133	125	60
ZBC02415.LI	24	15	no	25Ah - 50Ah - 100Ah	100-260	2,0	480	yes	50/60	yes	IP30	1,45	133	240	60
ZBC02425.LI	24	25	no	50Ah - 100Ah	100-260	3,3	800	yes	50/60	yes	IP30	2,50	249	160	80

BATTERY CHARGERS HIGH FREQUENCY

Zenith High Frequency

AUTOMATIC HIGH-FREQUENCY BATTERY CHARGERS

STABILIZED: the charge is always optimal even in case of wide mains voltage variations.

The use of very long extension cables does not compromise the correct battery charge.

The minimum mains voltage is 185V and the maximum is 265V.

LIGHT AND COMPACT: the high frequency technology allows to minimize the weight and size.

VERSATILE: all devices allow an easy on board installation (electricity presence block and minimum battery voltage block).

EASY: the charge cycle automatically starts by inserting the mains plug.

The microprocessor checks the battery charge level and the following charge cycle duration.

RELIABLE: the protecting resin enveloping the card protects the circuits from oxidation. It is endowed with a protective rooftop (NO PFC).

DATA MEMORY: the main information related to charge cycles are stored in the battery charger memory. Therefore, the user's behavior during charge / discharge phases can be easily retraced and warranty costs can be substantially reduced.

FLEXIBLE: with the **MP TOP II** programmer you can set the battery charger for the charge of lead-acid or sealed batteries (GEL, AGM). Moreover, you can select the capacity of the battery to be charged (within the limits set for every model).





- The nominal output current is CONSTANT CURRENT.
- The manufacturer provides the recharge of the indicated capacities, within recommended times, with 80% of batteries discharge.
- Lower discharges involve lower charging times.
- The programming of these devices allows them to be adapted for the charge of any battery brand.
- All devices are endowed with power cable (SHUKO 16A mains plug included where possible).
- All devices are supplied with output cables of 2,5MT, but WITHOUT the connector to the battery.
- The battery connectors are supplied on request.
- Mains supply: single-phase 185V/265V three-phase 340V/460V.
- Frequency: 47/62 Hz.
- Efficiency: single-phase > 85% three-phase >90%
- Recommended temperature at work: -10°C / +50°C.
- Batteries minimum voltage to allow the charge to start: 1,00 V/cell.

SINGLE-PHASE

	OUT	PUT			RECH	ARGEA	BLE BA	TTERIE	S				DIME	NSIONS	(mm)	
					LEAD	-ACID			SE	ALED		MAINS	DIME	INDIONS	(111111)	WEIGHT
CODE	.,		8	h	11	lh	1:	3h	1	l2h	Kw	VOLTAGE				(Kg)
	V	Α	Ah/C	5 min	Ah/C	5 min	Ah/C	5 min	Ah/	C5 min		(A) – 230V	L	W	н	(Kg)
			min	max	min	max	min	max	min	max						
ZHF1212		12	30	80	30	120	30	140	30	120	0,23	1,8	233	120	64	1,3
ZHF1212.C	12	12			cic	lo "IUoL	J" - 2,43	/2,25			0,23	1,8	234	120	64	1,3
ZHF1225	12	25	100	160	100	240	100	300	100	240	0,45	3,2	233	120	64	1,3
ZHF1225.C		25			cic	lo "IUoL	J" - 2,43	/2,25			0,45	3,2	234	120	64	1,3
ZHF2412		12	30	80	30	120	30	140	30	120	0,41	3,0	233	120	64	1,3
ZHF2420	24	20	80	120	80	200	80	240	80	200	0,67	4,6	233	120	64	1,5
ZHF2430	24	30	120	180	120	300	120	360	120	300	1,00	7,0	259	145	79	2,3
ZHF2460		60	180	360	180	600	180	720	180	600	2,00	12,0	329	174	96	3,9
ZHF3620	36	20	80	120	80	200	80	240	80	200	1,00	6,9	259	145	79	2,3
ZHF3640	36	40	160	240	160	420	160	480	160	420	2,00	12,0	329	174	96	3,9
ZHF4815	48	15	60	100	60	160	60	180	60	160	1,00	6,8	259	145	79	2,3
ZHF4830	40	30	120	180	120	300	120	360	120	300	2,00	12,0	329	174	96	3,9
ZHF6020	60	20	80	120	80	200	80	240	80	200	1,70	12,0	329	174	96	3,9
ZHF7220	72	20	80	120	80	200	80	240	80	200	2,00	12,0	329	174	96	3,9
ZHF8020	80	20	80	120	80	200	80	240	80	200	2,10	14,0	329	174	96	3,9
ZHF8420	84	20	80	120	80	200	80	240	80	200	2,10	14,5	329	174	96	3,9
						SIN	NGLE-	PHASE	with	P.F.C.						
ZHF2490PFC	24	90	270	540	270	900	270	1080	270	900	3,1	13A 240V	420	303	100	7,2
ZHF3660PFC	26	60	180	360	180	600	180	720	180	600	3,1	13A 240V	420	303	100	7,2
ZHF3670PFC	36	70	180	420	180	720	180	840	180	720	3,6	16A 230V	420	303	100	7,2
ZHF4845PFC		45	180	270	180	480	180	540	180	480	3,1	13A 240V	420	303	100	7,2
ZHF4855PFC	48	55	180	330	180	540	180	660	180	540	3,7	16A 230V	420	303	100	7,2
ZHF4865PFC		65	180	420	180	660	180	780	180	660	4,4	20A 230V	420	303	100	7,2
ZHF7230PFC	72	30	120	180	120	300	120	360	120	300	3,1	13A 240V	420	303	100	7,2
ZHF7240PFC	72	40	120	240	120	420	120	480	120	420	4,1	20A 240V	420	303	100	7,2
ZHF8030PFC	0.0	30	120	180	120	300	120	360	120	300	3,4	20A 240V	420	303	100	7,2
ZHF8040PFC	80	40	120	240	120	420	120	480	120	420	4,5	20A 240V	420	303	100	7,2
2111 00-101 1 C			120							120	.,5	20/12/10 0	1.20	_ 505		

THREE-PHASE

	OU	TPUT			RECH	ARGEA	BLE BA	TTERIE	S				DIME	NSIONS	(mm)	
					LEAD	-ACID			SE	ALED		MAINS	DIVIL	NJIONJ	(11111)	WEIGHT
CODE	v	Α	8	h	11	lh	13	3h	1	2h	Kw	VOLTAGE				(Kg)
	\ \	A	Ah/C	5 min	Ah/C	5 min	Ah/C	5 min	Ah/0	5 min		(A) - 400V	L	W	Н	(145)
			min	max	min	max	min	max	min	max						
ZHF24120T	24	120	360	720	360	1200	360	1400	360	1200	4,0	7,8	540	340	130	10,9
ZHF24240T	24	240	720	1400	720	2400	720	2800	720	2400	8,0	15,6	540	435	265	21,5
ZHF3680T		80	300	480	300	840	300	960	300	780	4,0	7,8	540	340	130	11,3
ZHF36120T	36	120	360	720	360	1200	360	1400	360	1200	6,0	11,5	540	340	130	11,5
ZHF36160T	36	160	600	960	600	1600	600	2000	600	1600	8,0	15,6	540	340	130	15,8
ZHF36240T		240	720	1400	720	2400	720	2800	720	2400	12,0	23,0	591	435	265	23,0
ZHF4865T*		65	180	420	180	660	180	780	180	660	4,3	8,5	540	340	130	10,9
ZHF4880T		80	300	480	300	840	300	960	300	780	5,3	10,5	540	340	130	11,3
ZHF48120T	48	120	360	720	360	1200	360	1400	360	1200	8,1	15,6	540	340	130	11,5
ZHF48160T]	160	600	960	600	1600	600	2000	600	1600	10,6	21,0	540	340	130	15,8
ZHF48240T		240	720	1400	720	2400	720	2800	720	2400	16,2	31,2	591	435	265	23,0
ZHF7280T		80	300	480	300	840	300	960	300	780	8,0	15,6	540	340	130	12,3
ZHF72120T	72	120	360	720	360	1200	360	1400	360	1200	12,0	23,4	540	340	130	15,8
ZHF72160T		160	600	960	600	1600	600	1900	600	1600	16,0	31,2	591	435	265	24,7
ZHF8080T		80	300	480	300	840	300	960	300	780	8,5	16,0	340	340	130	12,3
ZHF80120T	80	120	360	720	360	1200	360	1400	360	1200	12,8	24,0	540	340	130	15,8
ZHF80160T		160	600	960	600	1600	600	2000	600	1600	17,6	32,0	591	435	265	24,7

14 | Battery Chargers | Union Battery Service | Battery Chargers | 15

BATTERY CHARGERS CONVENTIONAL MGX-MORI

BATTERY CHARGERS HIGH FREQUENCY ZBCO



MGX Memory Charger

SINGLE-PHASE AUTOMATIC TRADITIONAL CHARGER





STABILIZED: optimal charge even in presence of wide fluctuations in the mains voltage (min. 185V - max. 265V).

TRADITIONAL: these devices are of a traditional type (not high frequency).

EASY: the charge cycle takes place automatically, by simply connection the battery. The microprocessor checks the level of batteries discharge and the charge times.

DATA MEMORY: the main information related to charge cycles is stored in the battery charger memory. Then, the user's behavior during charge/discharge phases can be easily reconstructed and warranty costs are dramatically reduced.

FLEXIBLE: with the MP TOP II programmer it is possible to set the battery charger for the charge of both lead-acid and sealed batteries (GEL, AGM).

185/265 50/60

RELIABLE: 2 years warranty

CODE

MGX1210 MGX1215 MGX2410

MGX2415 MGX2420

MGX2425*

MGX2430* MGX3620³

305 x 160 x h 127 mm *385 x 200 x h 147 mm

- The nominal output current is CONSTANT CURRENT.
- The manufacturer quarantees the charge of recommended capacities, within 10-13 hours, with 80% of batteries discharge.
- Lower discharges involve lower charging time.
- •The programming of these devices allows them to be adapted for the charge of any battery brand.
- All devices are endowed with SHUKO power cable.
- All devices are supplied with output cables, but WITHOUT the connector to the battery
- The battery connectors are supplied on request

	INPUT			0	UTPUT	RECHA	ARGEAB	LE BATT	ERIES						
PHASE	V	Hz	٧	Α	CYCLE	LEAD	-ACID	SEA (AGM	LED /GEL)	Kw	MAINS VOLTAGE	DIMEN	ISIONS	(mm)	WEIGHT Kg
TIAJE	V	112	•	1	CYCLL	Ah/C5 min	Ah/C5 max	Ah/C5 min	Ah/C5 max		[A] - 230V	L	w	Н	
1	185/265	50/60	12	10	IWoU/IUoU	100	120	80	100	0,18	1,3	305	160	127	5,6
1	185/265	50/60	12	15	IWoU/IUoU	130	180	110	150	0,29	1,9	305	160	127	6,2
1	185/265	50/60		10	IWoU/IUoU	100	120	80	100	0,36	2,5	305	160	127	7,4
1	185/265	50/60		15	IWoU/IUoU	130	180	110	150	0,54	3,7	305	160	127	9,1
1	185/265	50/60	24	20	IWoU/IUoU	190	240	160	200	0,72	5,0	305	160	127	12,0
1	185/265	50/60		25	IWoU/IUoU	250	300	210	250	0,90	6,0	385	200	147	13,8
1	185/265	50/60		30	IWoU/IUoU	310	360	260	300	1,10	7,4	385	200	147	18,5
1	185/265	50/60		20	IWoU/IUoU	190	240	160	200	1.10	7.4	385	200	147	15.8

300

210 | 250 | 1,40 |

25 | IWoU/IUoU | 250 |

HIGH FREQUENCY, ONLY FOR ON-BOARD CLEANING MACHINE USES



- Universal power supply (100V 260V).
- 24V models endowed with PFC.
- Endowed with electricity presence block
- Cooling fan

- Endowed with data memory
- Supplied with the universal cables kit (power cable not included).
- Endowed with specific charge cycle for ZENITH batteries
- 3 LEDs display



CODE	ОИТ	PUT	RECHARGEABLE			INPUT			I.D.	WEIGHT	DIME	NSIONS	(mm)
CODE	V	Α	CAPACITY	V	A (240)	w	Hz	PFC	IP	Kg			
	•	_ ^	Ah/20H	•	A (240)	••	2				L	W	Н
ZBC01208	12	8	50/85	100-260	1,0	140	50/60	no	IP30	0,65	133	125	60
ZBC02405	24	5	30/60	100-260	1,1	150	50/60	no	IP30	0,65	133	125	60
ZBC02411	24	11	70/120	100-260	1,5	350	50/60	si	IP30	1,20	133	164	64
ZBC02415	24	15	100/120	100-260	2,0	480	50/60	si	IP30	1,45	133	240	60
ZBCO.ADAPT					USB	ADAPTE	R DATA DOWN	NLOAD					

[▶]WARNING!!! Battery chargers without power cable

| Union Battery Service | Battery Chargers | 17 **16** | Battery Chargers | *Union Battery Service* |



BATTERY CHARGERS HIGH FREQUENCY

BATTERY CHARGER MULTIFUNCTION



EQUIPMENT

Zenith High Frequency

AUTUMATIC HIGH FREQUENCY BATTERY CHARGES SPECIFIC FOR LITHIUM BATTERIES RECHARGING



- The nominal output current is CONSTANT CURRENT.
- All devices are endowed with power cable (SHUKO 16A mains plug included where possible).
- All devices are supplied with output cables of 2,5MT, but WITHOUT the connector to the battery.
- The battery connectors are supplied on request.
- Mains supply: single-phase 185V/265V three-phase 340V/460V.
- Frequency: 47/62 Hz
- Efficiency: single-phase >85% three-phase >90%
- Reccommended temperature at work: -10°C / +50°C

COMPLETE WITH BUTTON FOR REACTIVATION 'BMS' BATTERY

5005	OUT	PUT	.,	MAINS	DIME	NSIONS	(mm)	WEIGHT
CODE	v	Α	Kw	VOLTAGE				Kg
	, v	_ ^		[A] - 230V	L	W	Н	5
ZHF2420.LH		20	0,67	4,6	233	120	64	1,5
ZHF2430.LH	24	30	1,00	7,0	259	145	79	2,3
ZHF2460.LH		60	2,00	12,0	329	174	96	3,9
		Sing	gle-pl	nase with P.F.	C.			
ZHF2490PFC.LH	24	90	3,1	13A 240V	420	303	100	7,2
ZHF4855PFC.LH	48	55	3,7	16A 230V	420	303	100	7,2
			Thr	ee-phase				
ZHF48120T.LH	48	120	8,1	15,6	540	340	130	11,5

It is possible to realize models on demand

Power-Switch Multisystem

HIGH FREQUENCY SINGLE-PHASE MULTI-VOLTAGE BATTERY CHARGER, IDEAL FOR "REFRESH" CHARGES

MULTISYSTEM, it is a battery charger suitable for any type of batteries (both traction and starter, sealed or lead acid).

It is easy to program through the keyboard and the display.

The operator sets three charging cycle parameters ("IU" cycle):

- maximum battery voltage during the charging phase
- constant current
- time (max. 50 hours)

It offers great flexibility advantages:

- it is possible "refresh" full pallets, connecting them in series or in parallel, according to customer preferences
- it is possible to recharge 6V, 8V, 12V, 24V, 36V, 40V, 48V batteries and any intermediate voltage value
- it is possible to use it as a replacement for other battery chargers (KEYBOARD BLOCK function)
- it can be easly carreid to the customer in order to try to recover "sulphated" batteries

Single-phase supply:

 correct cherge level even when supply voltage fluctuates from 185V to 265V frequency 50/60Hz

Two models are available:

- code: PSW.MS.1
- programmable voltage: from 6V to 32V
- programmable constant current: from 3A to 40A
- code: PSW.MS.2
- programmable voltage: from 12V to 64V
- programmable constant current: from 3A to 30A



It is supplied with battery connection clamps and instruction manual with hints on how to use it.

CODE	VDC PROGRAMI STEF	MABLE OUTPUT 0.1V			4 A	MINUMUM VOLTA- WEIGHT		DIMENSIONS (mm)		
CODE	Min.	Max.	Min.	Max.	Idc out programmable	GE FOR CHARGE Kg				
								L	W	Н
PSW.MS.1	6V	32V	ЗА	from 40A to 29V	35A over 29V	3,5V	4,5	295	220	110
PSW.MS.2	12V	64V	3A	from 30A to 58V	25A over 58V	7,0V	4,5	295	220	110

18 | Battery Chargers | Union Battery Service | Battery Chargers | 19



BATTERIES REGENERATOR

Battery Regenerator

How many batteries did you replace without knowing if they could be still used? How many batteries did you replace under commercial warranty? How many batteries did you have to throw because they were old?

The BATTERY REGENERATOR allows you to work independently and to eliminate these costs. It pays itself in 6 months of actual work!*

The innovative device for the treatment of lead-acid batteries, modular, is now available to everyone!

The integrated solution of the discharge + multi-voltage charger allows to realize a variety of activities in a simple and **automatic**

The device is **portable** and it is possible to perform tests directly at the customer or at the installation.

The data collected will be easly transferred to a PC in order to elaborate and print.

What kind of batteries can you deal with Battery Regenerator?

- Lead acid starter batteries (MF and SMF) at 12 Volt.
- AGM starter batteries at 12 Volt.
- AGM stand-by batteries at 6 Volt or at 12 Volt.
- Lead acid batteries (both tubolar and flat), for cycle use, 6/8/12 Volt.
- AGM batteries for cycle use, 6/8/12 Volt.

How does the Battery Regenerator work?

Three simple actions are needed and the rest happens automatically:

- Choose the activity from the 5 options.
- Set the data of the battery to deal.
- START.



What can you do with the Battery Regenerator?

- Equalize/balance new batteries before the installation.
- Refresh the batteries in stock, .
- Regenerate batteries used incorrectly.
- Check the batteries and status: discharge in 20h, 5h e 2h.
- Cycle new batteries to check their performance over time: 20h, 5h e 2h.

Who needs the Battery Regenerator?

To all the companies that work with modular batteries:

- Dealers/renters of cleaning machines.
- Resellers/renters of scissor lift.
- Resellers/renters of golf cars and/or electric vehicles for touristic village and resorts.
- Resellers/renters of camper.
- Resellers of lead batteries in general.
- Maintainers/ installers of batteries for continuty groups, UPS and telephone switchboards.
- Installers/maintainers of boat.
- Resellers/maintainers of vehicles for the elderly and disabled.

ACCESSORIES

▶ DC CONNECTORS (battery connection)

CODE		Model
	00200001	SB50 50A BATTERY GREY PLUG
	00200002	SB50 50A BATTERY RED PLUG
14	00200030	SBE160 160A BATTERY RED PLUG
	00200033	SBE160 160A BATTERY GREY PLUG
1	00200038	SB120 120A BATTERY GREY PLUG
	00200039	SB120 120A BATTERY RED PLUG
	00200040	SB175 175A BATTERY GREY PLUG
	00200042	SB175 175A BATTERY RED PLUG
	00200043	SB175 175A BATTERY BLUE PLUG
	00200044	SBE160 160A BATTERY BLUE PLUG

CC	DE	Model
H	00200082	DIN 80A male BATTERY PLUG
	00200083	DIN 160A male BATTERY PLUG
1	00200084	DIN 320A male BATTERY PLUG
	00200161	DIN 80A female BATTERY PLUG
	00200162	DIN 160A female BATTERY PLUG
	00200163	DIN 320A female BATTERY PLUG
1	00200200	Schaltbau male LV80 BATTERY PLUG
F	00200201	Schaltbau male LV160 BATTERY PLUG
	00200202	Schaltbau male LV320 BATTERY PLUG
F	00200150	FT80 EURO 80V male BATTERY PLUG

CO	DE	Model
	00200090	2P 16A 24V BATTERY VIOLET PLUG
	00200036	SBE160 160A BATTERY PLUG
Section 1	00200103	SBE320 320A BATTERY BLU PLUG
	00200105	SBE320 320A BATTERY PLUG
	00200120	SB350 350A BATTERY GREY PLUG
	00200141	SB350 350A BATTERY BLU PLUG
	00200142	SB350 350A BATTERY RED PLUG
	00200143	SB350 350A BATTERY GREEN PLUG
1 22	00200101	SBE320 320A BATTERY RED PLUG
		I

ACCESSORIES

▶ POLE PROTECTION







CODE	KIT QUANTITY	
СРМ6	10 coppie	
CPM8	10 coppie	
CPMORS	10 coppie	

| Union Battery Service | Battery Chargers | 21 **20** | Battery Chargers | *Union Battery Service* |

^{*}ask to the rapresentative sales for more details.

ACCESSORIES

► AUTOMATIC REFILLING CAPS





00300005



00300015



CODE	REFILLING CAPS
00300000	Cap automatic refilling "SCREW"
00300005	Cap automatic refilling "BAYONET"
00300015	Cap automatic refilling "CONNECTION"



00300100

00300200

00300000



00300300











00300310

CODE	CAPS ACCESSORIES	
00300100	Floating	
00300115	Floating	
00300120	Floating	
00300125	Floating	
00300200	Topping	
00300300	"T" connection	
00300305	"T" connection	
00300310	"T" connection	
00300350	Male rapid connection	
00300360	Female rapid connection	
00300400	Filter	
00300450	Flow indicator	
00300500	Tube	
00300505	Tube	





00300305



00300360





00300400





00300500

00300505

MAINTENANCE KIT FOR ZENITH CELLS

CODE: KIT.MAN

00300450

Maintenance kit supplied in assembled batteries.

Contains:

- Densimeter
- Thermometer
- Syringe



DISTILLED WATER 10LT. TANK



CODE	Description	
ACDEMR	10 lt Tank with tap	
ACDEMR25	25 lt Tank with tap	

ACCESSORIES

▶ ADAPTORS

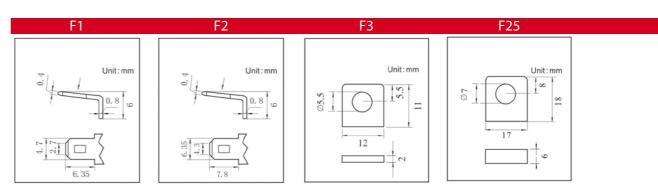


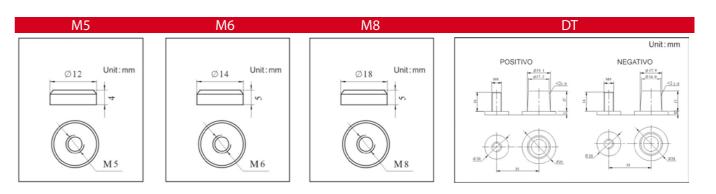




CODE	Suitable for	KIT QUANTITY
KIT.AP.M6	terminal M6	10 pieces
KIT.AP.M8	terminal M8	10 pieces
KIT.AP.STUD	screw terminal m8	1 piece
Adaptor TROJAN "A	1 piece	
Adaptor TROJAN "A	1 piece	

TERMINALS FOR ZENITH BATTERIES







22 | Services | *Union Battery Service* | | Union Battery Service | Services | 23

PRACTICAL ADVICE ON LEAD-ACID BATTERIES

It is NOT provided optimal battery for all applications, but on the contrary each series of batteries has optimal constructive solutions, specific for the market to which it addresses to.

In the catalog are clearly identified the areas of application of the various series of batteries, in cases of doubt, please contact us!

- 1. ALWAYS choose the range of suitable batteries to the application and size the model according to the most proper function:
 - Certainty of the duration of the battery over time.
 - Any possible problem is covered by warranty.

On the contrary, wrong choices are NOT covered by warranty and affect battery life.

- 2. ALWAYS use the batteries in adequately ventilated places.
- 3. AVOID any short circuit between the battery poles.
- 4. BATTERY CONNECTION IN PARALLEL.

With the parallel connection of two batteries, you get a battery with the same voltage value, but with double capacity.

IMPORTANT TO KNOW: using batteries in parallel can be dangerous for two reasons:

- If the connections between the batteries do not allow a proper subdivision of the current output between the batteries, the batteries will unbalance hopelessly within a short time.
- A possible short circuit of a battery also damages other batteries with eventual damages to the environment in which the batteries are installed.



With the series connection of two batteries, you get a battery with the same capacity value, but with double voltage.

- Used in series do NOT mix batteries of different brands or of different ages.
- Used in series occur regularly (3-4 times a year) of the individual batteries. Eventual problems on a battery may impact upon the other batteries.
- Used in series, alternating the position of the batteries at least 2-3 times a year.
- 6. In ALL lead acid batteries (eg. Our TROJAN series) electrolyte level must be checked at least monthly, on the contrary in traction cells at least once a week. The plates must ALWAYS be completely immersed. If necessary, add ONLY distilled water AFTER charging.
- Periodically discharge the batteries (better once a month) completely (up to 80%). Not for the starter ones.
- 8. For long periods of disuse, recharge the batteries periodically (at least once a month)
- 9. ALWAYS recharge the batteries immediately after discharge
- 10. The temperature conditions the battery performance. All technical data are related to 25°C (internal battery)
 - Lower temperatures reduce the capacity: from 0 °C it will be about 60%
 - Higher temperatures reduce DRASTICALLY the battery life
- 11. Prevent and remove eventual oxidation on the poles. It is recommended the use of rubber end covers
- 12. On our website www.unionbatteryservice.it are available all the general warranty conditions

THE RESERVE

FOR FURTHER AND MORE DETAILED TECHNICAL SUPPORT, PLEASE CONTACT US!!!

REFRESH CHARGES FOR BATTERIES AT STOCK				
(ZL, ZGL, ZPC, ZLS) (TROJAN)				
Storage temperature: between 10°C and 20°C	Every 9 months	Every 3 months		
Storage temperature: between 20°C and 30°C	Every 6 months	Every 2 months		
Storage temperature: between 30°C and 40°C	Every 3 months	Every month		



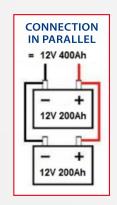




100

Via Alessandro Volta 25015 Desenzano del Garda (Bs) - Italia Tel +39 030 9904570 - Fax +39 030 9902207 info@unionbatteryservice.it www.unionbatteryservice.it

111 100 THE RESERVE



12V 200Ah

101 1 10

CONNECTION IN SERIES

12V 200Ah

24V 200Ah