

ATTENTION: NOT ALL BATTERY CHARGERS ARE CREATED EQUAL

When purchasing a charger to suit your battery, please note the battery manufacturer's recommendations for boost/absorption and float voltage requirements. These voltage specifications have critical influence on the life of any battery.

Chargers should also be matched to the capacity of the relevant battery. Maximum battery life is obtained by sizing chargers so that full recharge is possible within a period of 8-12 hours. A good rule of thumb is to size your charger to at least 10% of the 20-hour Ah rating (ie - for a 100Ah battery select a charger rated at 10-amps or more).

It is important to note that a battery charger which does not have multiple settings for boost/absorption and float voltages cannot claim suitability across a variety of battery types and technologies. Chargers that feature a setting for Gel, AGM and Flooded type batteries should also provide some form of current limiting for best results. Charge ripple should be below +/- 30mV for longest battery life.

Whilst not always absolutely necessary, a great function of quality battery chargers is temperature compensation. We strongly recommend this feature for chargers servicing larger battery systems operating across a wide range of ambient temperatures.

Incorrect charging and over or under-charging significantly shortens battery life. Anecdotally charging a battery consistently at only 0.5V above the recommended maximum will also shorten battery cycle life by up to 40%.

If you have selected a charger that is not recommended for use with any of these batteries, please consult your charger's manual and check that it is suitable for the application.

If you are selecting a charger for a generic or other brand battery, always refer to the manufacturer's recommended charging requirements. If no specifications can be found, please refer to the typical charge requirements for each battery technology, as listed below:

Generic Wet Cell Deep Cycle - 14.4-14.7 Boost/Absorption, 13.2-13.8 Float
 Generic AGMs Deep Cycle - 14.4-14.7 Boost/Absorption, 13.5-13.8 Float
 Generic Gel Cell Deep Cycle - 14.1-14.3 Boost/Absorption, 13.5-13.8 Float

All specification and recommendations are current at time of printing. Charger and or battery specification may vary with updates and improvements. Please visit www.federalbatteries.com.au for up to date information and charging recommendation on any of these products.

BATTERY BRAND	BATTERY TYPE	BATTERY APPLICATION	CCA @ MINUS 18-DEGREES CELCIUS	SIZE (Ah @ 20hr rate)	BOOST/ ABSORPTION (V)	FLOAT (V)	RECOMMENDED CHARGER TYPE
LIFELINE	AGM	DEEP CYCLE	215-1350	33-255	14.2-14.4	13.2-13.3	●●●●●
REMCO	AGM	DEEP CYCLE	N/A	18-105	14.4-14.7	13.5-13.8	●●●●●●●●
DEKA SEAMATE	AGM	DUAL PURPOSE	200-1350	32-245	14.4-14.6	13.5-13.8	●●●●●●●
DEKA INTIMIDATOR	AGM	DUAL PURPOSE	750-800	55-100	14.4-14.6	13.5-13.8	●●●●●●●
ODYSSEY	AGM	DUAL PURPOSE	100-1225	8-114	14.4-14.7	13.5-13.7	●●●●●●●●
OPTIMA*	AGM	DUAL PURPOSE	450-900	50-75	14.1-14.7	13.2-13.8	●●●●●●●●
PULSE AGM	AGM	DUAL PURPOSE	198-600	17-110	14.4-14.7	13.5-13.8	●●●●●●●●
POWERSPORTS	AGM	STARTING	120-365	8-26	14.4-14.6	13.5-13.8	●●●●●●●
FEDERAL AUTOMOTIVE AGM	AGM	STARTING	320-900	32-100	14.4-14.6	13.5-13.8	●●●●●●●●
GEL-TECH	GEL	DEEP CYCLE	175-1150	32-225	13.8-14.1	13.5-13.8	●●●●●●
FEDERAL GEL	GEL	DEEP CYCLE	N/A	26-145	13.8-14.1	13.5-13.8	●●●●●●
PULSE GEL	GEL	DEEP CYCLE	425-520	80-96	14.1-14.3	13.5-13.8	●●●●●●
VARTA BLUE	FLOODED	STARTING	540-950	60-170	14.4-14.7	13.2-13.8	●●●●●●●●
FEDERAL AUTOMOTIVE WET	FLOODED	STARTING	450-1450	55-200	14.4-14.7	13.2-13.8	●●●●●●●●
AMARON HI LIFE SERIES	FLOODED	STARTING	335-670	35-80	14.4-14.7	13.2-13.8	●●●●●●●●
AMARON INVERTER SHIELD	FLOODED	DEEP CYCLE	N/A	100-160	14.4-14.7	13.2-13.8	●●●●●●●●
US BATTERIES	FLOODED	DEEP CYCLE	N/A	270-303	14.4-14.7	13.2-13.8	●●●●●●●●
FEDERAL DEEP CYCLE	FLOODED	DEEP CYCLE	N/A	33-370	14.4-14.7	13.2-13.8	●●●●●●●●
VARTA SEMI-TRACTION	FLOODED	DEEP CYCLE	40-180	50-240	14.4-14.7	13.5-13.8	●●●●●●●●

* AVAILABLE IN 4 VARIATIONS:
 Blue top with Grey base (Marine Use - Dual Purpose) Yellow top with Grey base (Automotive Use - Dual Purpose)
 Blue top with Charcoal base (Marine Use - Starting) Red top with Charcoal base (Automotive Use - Starting)



BATTERY CHARGER INFORMATION YOU NEED TO KNOW

CHARGER BRAND**	MODEL	CURRENT (A)	BOOST/ABSORPTION CHARGE (V)	FLOAT CHARGE (V)	AH SUITED	COMMENTS
CTEK	XS800 12V	0.8	14.4	13.6	<45	Ideal for maintenance of batteries that sit idle for extended periods
CTEK	XS7000 12V	7	14.4-14.7	13.6	<70	8-stage charging with automatic temperature adjustment ***
CTEK	XS1500 12V	15	14.4	13.6	<150	
CTEK	XS2500 12V	25	14.4	13.8	<250	
MATSON	PRO MEC060-1 GEL	6	14.1	13.8	<60	
MATSON	PRO MEC100-1 GEL	10	14.1	13.8	<100	
MATSON	PRO MEC060	6	14.7	13.8	<60	Trade charger suitable for Wet Cells and selected AGM Cells
MATSON	PRO MEC100	10	14.7	13.8	<100	
MATSON	SMT MSC080	8	14.4	13.6	<80	Suitable for all technology types except Gel Cells
MATSON	SMT MSC160	16	14.4	13.6	<160	
MATSON	MAC6	6	14.7	13.6	<80	Automatic charger suitable for Well Cells
MATSON	MAC12	12	14.7	13.6	<120	
FEDERAL	LC12-10	10	14.3	13.2	<105	Purpose built for Lifeline up to 105Ah
FEDERAL	1204G	4	14.1	13.7	<50	Purpose built for Gel-Tech up to 50Ah
FEDERAL	GC12-10	10	14.1	13.7	<100	Purpose built for Gel-Tech up to 100Ah
XANTREX	TC1012	10 (7 level)	4 SELECTABLE CURVES		<100	True universal charger with temperature compensation and selectable output voltage and current.
XANTREX	TC1512	15 (7 level)	FLOODED 14.4Ab, 13.5FI		<150	
XANTREX	TC2012	20 (7 level)	GEL 14.2Ab, 13.8FI		<200	
XANTREX	TC3012	30 (7 level)	AGM 14.3Ab, 13.4FI		<300	
XANTREX	TC4012	40 (7 level)	LEAD-CALCIUM 15.5Ab, 13.5FI		<400	
SINERGEX	SIPC12/10 12V	10	14.4	13.6	<80-100	Suitable for Wet Cells and selected AGM Cells. Not to be used with Gel-Tech or Lifeline
SINERGEX	SIPC12/12 2L 12V	12 (2 level)	7 SELECTABLE CURVES 14.1v Ab, 13.3v FI 14.2v Ab, 13.5v FI		<200	Multi-stage with selectable output current and charging curves to suit most batteries.
SINERGEX	SIPC12/25 3L 12V	25 (3 level)	14.2v Ab, 13.6v FI 14.4v Ab, 13.2v FI 14.5v Ab, 13.7v FI		<300	
SINERGEX	SIPC12/40 3L 12V	40 (3 level)	15.4v Ab, 13.8v FI 14.2v Ab, 13.8v FI		<400	

** These are the chargers that we know, trust and recommend for use with our batteries.

*** Warning: Do not use re-conditioning mode without first reading the instruction manual and you are sure it is necessary

● CTEK

●●●● MATSON

●● FEDERAL

●● SINERGEX



FEDERAL BATTERIES