

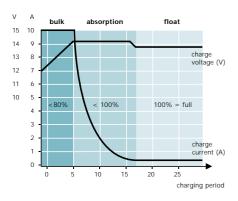


ALTERNATORS & REGULATORS

High output alternators & 3-stage regulators

Why a high output alternator is recommended

All inboard propulsion engines are fitted with an alternator as standard. The charge current is restricted to maintain a trickle charge for the starter battery and is not powerful enough to charge a service battery. The Mastervolt alternator in combination with the Alpha Pro 3-step regulator is designed to give a real charge to the house, radio or bowprop batteries, regardless of the technology (gel, wet or traction) of the battery. Multiple bank charging can be done without problems as the Alpha Pro regulator allows you to adjust all voltage settings that are required. Now the batteries can be charged quickly and completely even at low engine speed.



Robust design guarantees life time operation

The enclosed brush design combined with a severe corrosion protection guarantees maintenance free use. The alternators are designed to operate in dirty environments with extreme high ambient temperatures. The bearings are made to last forever whilst the output current is at maximum in warm engine rooms. The Alpha Pro 3-step voltage regulator is supplied with a 1 meter cable connection – all prefab, easy to fit. The electronics are designed to operate in harsh marine or mobile circumstances and are completely sealed which guarantees an extended life time, even in humid environments.



Extended range

The alternators are provided in two versions: the small models have a smaller diameter allowing the lowest weight. The large frame versions are bigger and extremely powerful. Fitting an alternator is a job for a specialist: the installation parts (steel strips or brackets) are normally provided by the propulsion engine dealer or installer: brands like Volvo Penta, Perkins, Yanmar, Nanni and others can be fitted with an alternator in this way. All alternators are equipped with a double pulley which



Typical installation example

requires in most cases the ad-on of a pulley or power take off at the engine – this should also be done by the engine supplier or installer. The Mastervolt alternators are bi-directional, fitted with metric output studs and are ungrounded. The guarantee period is 2 years with world wide service.

- FOR A COMPLETE CHARGE OF THE BATTERY WITHIN A SHORT ENGINE RUNNING TIME
- FAST CHARGING DUE TO OUR ADVANCED 3-STEP CHARGE REGULATOR (VOLTAGE ADJUSTABLE)
- HIGH CURRENT AT LOW RPM PROVIDES THE SHORTEST CHARGE TIME
- INCLUDES TEMPERATURE SENSOR
- REPLACES SMALL GENSETS WHEN COMBINED WITH A SINE WAVE INVERTER





PRODUCT OVERVIEW ALTERNATORS

Regulators are included in the package.

					24/95	
12/90	12/130	24/75	24/110	24/150	Compact	
48012090	48012130	48024075	48024110	48024150	46020950	
А	В	В	В	С	D	
90A	130A	75A	110A	150A	95A	
14.25V	14.25V	28.5V	28.5V	28.5V	28.5V	
13.25V	13.25V	26.5V	26.5V	26.5V	26.5V	
12-15V	12-15V	24-30V	24-30V	24-30V	24-30V	
Alpha Pro charge regulator, 3-stage Alpha P						
maritime con						
ø 73	ø 88	ø 88	ø 88	ø 92	ø 76.4	
2x	2x	2x	2x	2x	2x	
only available with Alpha Pro (via sensor on battery)						
yes	yes	yes	yes	yes	yes	
	2	2	2	2	1	
5.5 kg	10.1 kg	10.1 kg	10.1 kg	13.1 kg	7.9 kg	
3	1	1	1	3	1	
	48012090 A 90A 14.25V 13.25V 12-15V Alpha Pro chamaritime con Ø 73 2x only available yes 5.5 kg	48012090 48012130 A B 90A 130A 14.25V 14.25V 13.25V 13.25V 12-15V 12-15V Alpha Pro charge regulator, 3 maritime connection cable, of 673 Ø 88 2x 2x only available with Alpha Proyes yes 2 5.5 kg 10.1 kg	48012090 48012130 48024075 A B B B 90A 130A 75A 14.25V 14.25V 28.5V 13.25V 13.25V 26.5V 12-15V 12-15V 24-30V Alpha Pro charge regulator, 3-stage maritime connection cable, oil resistant, 1.5 m Ø 73 Ø 88 Ø 88 2x 2x 2x 2x only available with Alpha Pro (via sensor on byses yes yes 2 2 5.5 kg 10.1 kg 10.1 kg	48012090 48012130 48024075 48024110 A B B B 90A 130A 75A 110A 14.25V 14.25V 28.5V 28.5V 13.25V 13.25V 26.5V 26.5V 12-15V 12-15V 24-30V 24-30V Alpha Pro charge regulator, 3-stage maritime connection cable, oil resistant, 1.5 meters Ø 73 Ø 88 Ø 88 Ø 88 2x 2x 2x 2x only available with Alpha Pro (via sensor on battery) yes yes yes yes yes 2 2 2 5.5 kg 10.1 kg 10.1 kg 10.1 kg	48012090 48012130 48024075 48024110 48024150 A B B B B C 90A 130A 75A 110A 150A 14.25V 14.25V 28.5V 28.5V 28.5V 13.25V 13.25V 26.5V 26.5V 26.5V 12-15V 12-15V 24-30V 24-30V 24-30V Alpha Pro charge regulator, 3-stage maritime connection cable, oil resistant, 1.5 meters Ø 73 Ø 88 Ø 88 Ø 88 Ø 92 2x 2x 2x 2x 2x 2x 2x only available with Alpha Pro (via sensor on battery) yes yes yes yes yes 2 2 2 2 5.5 kg 10.1 kg 10.1 kg 10.1 kg 13.1 kg	



Model 12/90, art. no. 48012090.



Model 24/110, art. no. 48024110.

All alternators are fitted with pulleys for double belts.

Although lighter versions can operate with a single belt, using a double belt drive is more reliable.

ALPHA PRO: TECHNICAL SPECIFICATIONS

Model	Alpha Pro 12V	Alpha Pro 24V	Alpha Pro B 12V*	Alpha Pro B 24V*			
Article no.	45511000	45511200	45511400	45511600			
Charge voltage - bulk**	14.25	28.5	14.25	28.5			
Charge voltage - float**	13.25	26.5	13.25	26.5			
Adjustability – bulk	13-15	27-31	13-15	27-31			
Adjustability – float	13-13.9	26-28.8	13-13.9	26-28.8			
Temp. compensation	30mV/°C	60mV/°C	30mV/°C	60mV/°C			
Absorption time	4 hours, adjustable from 2 minutes to 4.5 hours						
Minimum PWM	tacho, minimal rev. counter, keep alife 6% PWM						
Regulation	negative with built-in trip-free diode						
Temperature sensor cable length	6 meter	6 meter	6 meter	6 meter			
Dimensions hxwxd in mm	90x95x30	90x95x30	90x95x30	90x95x30			
Casing	IP65	IP65	IP65	IP65			
Weight	0.4 kg	0.4 kg	0.4 kg	0.4 kg			
Connections	external faston for all models						
Connection cable	6 meters for all models						
Suitable for alternator type	Mastervolt/Prestolite	Mastervolt/Prestolite	Bosch	Bosch			

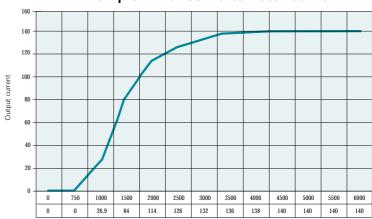


Model 24/150, art. no. 48024150.



Alpha Pro: includes charge status indication LED's, potentiometer settlings for voltage and other parameters, includes temperature sensor + cable.

Example 12V/130A alternator curve



Shaft RPM

^{*} Alpha Pro B compatible with Bosch alternator.

^{** 0.2}V higher with temperature sensor connected.