Using the car / vehicle engine as a generator
DC BeltPower

5 YEARS WARRANTY

The propulsion engine of a sailing, motor yacht or vehicle, is in general, equipped with an average sized alternator designed to charge the starter battery. These type of alternators are not powerful enough to charge the service battery. Furthermore, the charging voltage of the alternator is regulated to maintenance level which is not really conducive to fully and quickly charging an onboard battery. This imitation is solved with a WhisperPower BeltPower alternator. We recommend installing the DC BeltPower as a second alternator with the primary function being to charge the onboard battery, or even multiple battery banks via our WBI battery Isolator.
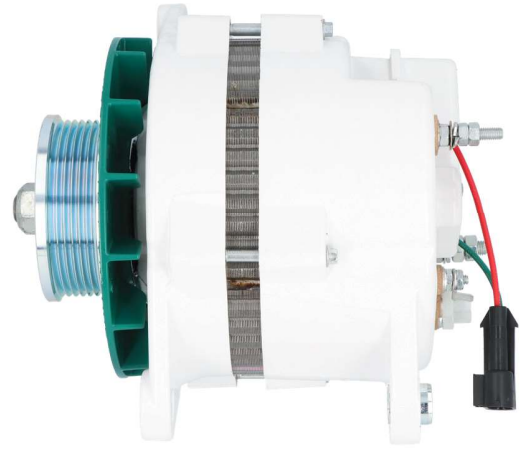
DC Beltpower
12 VDC | 90 A - Art. Nr. 60212091
24 VDC | 75 A - Art. Nr. 60224076
24 VDC | 110 A - Art. Nr. 60224111

Features
- Heavy duty 12 / 24 VDC alternator
- Charge current 75 - 110 Amps
- High charge current even at low rpm
- ACR 3-step charge system ensuring fast and complete battery charge
- Automatic charge voltage adjustment to ambient temperature via sensor on battery
- Complete Plug and Play
- Brackets available to mount alternator (not included, advice on request)
- Different pulleys available

Drawings available on our website

Benefits
- On average, engine doesn't need to run for longer than an hour to charge batteries
- The ACR voltage regulator ensures batteries are 100 % charged
- Thanks to a special way of winding the alternator, there is a high charge current even at low engine speeds
- The standard 12 / 24 VDC alternator can remain in place no need to alter the standard engine configuration
- Inverters up to 3 kW can be used in combination with the DC BeltPower (advice on request)
- A smart WhisperPower WBI battery Isolator can be used to charge up to 3 individual batteries
- Suitable for every engine type

Included

Temp sensor
6 meter cable
Art. Nr. 60201202

Automatic Charge Regulator
12 VDC - Art. Nr. 60115100
24 VDC - Art. Nr. 60115200

Cable harness

DC BeltPower Series

	12 VDC | 90 A	24 VDC | 75 A	24 VDC | 110 A
Article Number	60212091	6022407€	60224111
Enclosure type	A	B	B
Charge current	90 A	75 A	110 A
Alpha Pro charge regulator	standard	standard	standard
Charge voltage absorption	14.25 VDC	28.5 VDC	28.5 VDC
Charge voltage float	13.25 VDC	26.5 VDC	26.5 VDC
Cable length regulator / alternator	1.5 metre, oil resistant marine connection cable included as standard		
Diameter double pulley	ø 73 mm	ø 88 mm	ø 88 mm
Belt section	2xA	2xA	2xA
Earthed	Yes	Yes	Yes
Turn directions	2	2	2
Weight	5.5 kg / 12.1 lb	10.1 kg / 22.3 lb	10.1 kg / 22.3 lb
Voltage regulation	WP ACR voltage regulator included as standard with all models		

Suitable to charge Lithium batteries

DC BeltPower is available with the following pulleys

ART. NR.	PULLEY	SUITABLE FOR
60212001	Pulley Double V ⁵/₈" 73.6 mm	For 12 VDC-90 A Alternator
60212006	Pulley Flat belt ⁷/₈" 89 mm	For 12 VDC-130 A; 12 VDC-160 A; 24 VDC-75 A; 24 VDC-110 A; 24 VDC-150 A Alternator
60212002	Pulley Flat belt ⁵/₈" 73.6 mm	For 12 VDC-90 A Alternator (optional)
60212005	Pulley Double V ⁷/₈" 89 mm	For 12 VDC-130 A; 12 VDC-160 A; 24 VDC-75 A; 24 VDC-110 A; 24 VDC-150 A Alternator (optional)

Automatic Charge Regulator Series

	ACR | 12 VDC	ACR | 24 VDC
Article Number	60115100	60115200
GENERAL		
Nominal operation voltage	12 VDC	24 VDC
Temperature sensor	Yes, cable length 6 m	Yes, cable length 6 m
Cable harness	Yes, length 1.5 m	Yes, length 1.5 m
Connection plug regulator/alternator	WhisperPower Alternator	WhisperPower Alternator
Alternator type	WhisperPower, low voltage, brush type	WhisperPower, low voltage, brush type
ELECTRICAL		
Charge voltage - Absorption	14.25 VDC	28.50 VDC
Charge voltage - Float	13.25 VDC	26.50 VDC
Absorption Voltage range	13 - 15 VDC	27 - 31 VDC
Float Voltage range	13 - 13.9 VDC	26 - 27.8 VDC
Absorption time	0 up to 4.5 h	0 up to 4.5 h
Temperature Compensation	-30 mV / °C	-60 mV / °C
Rev counter input	Prepared	Prepared
Operation Temperature	-20 up to 80°C	-20 up to 80°C
SETTINGS/READ OUT		
Voltage settings	By trimmers on device	By trimmers on device
Time settings	By trimmers on device	By trimmers on device
Status read-out	LED's	LED's
COMMUNICATION		
Communication bus	WhisperConnect prepared	WhisperConnect prepared
ELECTRICAL		
Dimensions (W x D x H) in mm	117 x 27 x 120	117 x 27 x 120
Dimensions (W x D x H) in inches	4.60 x 4.72 x 1.05	4.60 x 4.72 x 1.05
Weight	0.4 kg	0.4 kg
Packaging dimensions (W x D x H) in mm	330 x 65 x 230	330 x 65 x 230
Protection Degree	IP65	IP65

Battery charging is accomplished in three automatic stages: BULK, ABSORPTION and FLOAT. Simple, automatic operation is made possible by the microprocessor which is the brain of the WP-ACR.