

ALTERNATOR

G TYPE up to 180 Amps



This alternator has a specially wound stator to achieve high power output in a small, low weight package. High current diodes are used in the rectifier and internal fans provide forced air cooling. The output is controlled by a regulator inside the alternator. The units are assembled with stiff brush springs and extra flexible wire to connect the stator to the rectifier.

The stator is pegged to the body and all screws are locked. High quality bearings are used to enable the alternators to run at high speeds (up to 18,000rpm). The standard mounting method is intended for a belt drive, but the alternator may also be driven directly, if required.

Please request our installation datasheet for further details.

Electrical

- Output voltage 14.5V DC
- Nominal output current 180A at 10,000 RPM (cut in speed 3500rpm)

A detailed performance chart is shown on the next page.

Mechanical

- Weight less than 3.5kg
- Aluminium alloy body
- Billet aluminium rear cover
- Maximum speed 18,000rpm
- Rotation clockwise or anti-clockwise
- Rectifier strapped

Design and manufacture is in-house, so if our existing designs do not suit your application, we can provide cost effective customised parts to suit even the most demanding application.

Please contact our technical consultancy service who will be pleased to help.

Connection Definition

- 22 AWG cable (where fitted)
- Positive power output M8 stud (B+ terminal)
- Ground connection for power and regulator is through the case. Ensures that the case has a high current, low resistance connection to vehicle ground
- Cable connection

Green	Pin A	Pin 1	Ignition
Red	Pin B	Pin 2	Sense
White	Pin C	Pin 3	Lamp
- Single connection details: Ignition and sense connections are through the power output stud (B+ terminal)

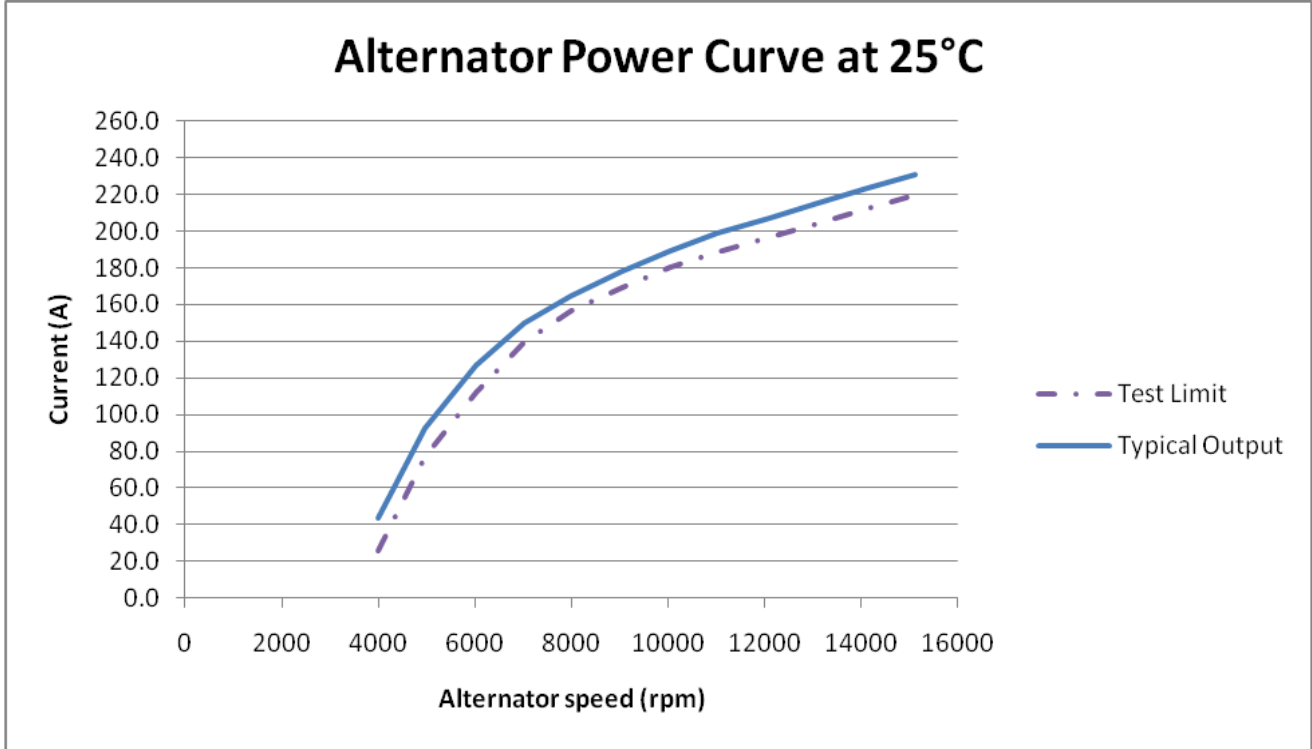
Environmental

- Splash resistant to standard motorsport fluids
- Continuous ambient operating temperature -30 to +90°C
- Maximum ambient temperature 110°C short term. Providing the following temperatures are not exceeded:

Stator	200°C
Diodes	175°C
Regulator	105°C
Bearings	150°C

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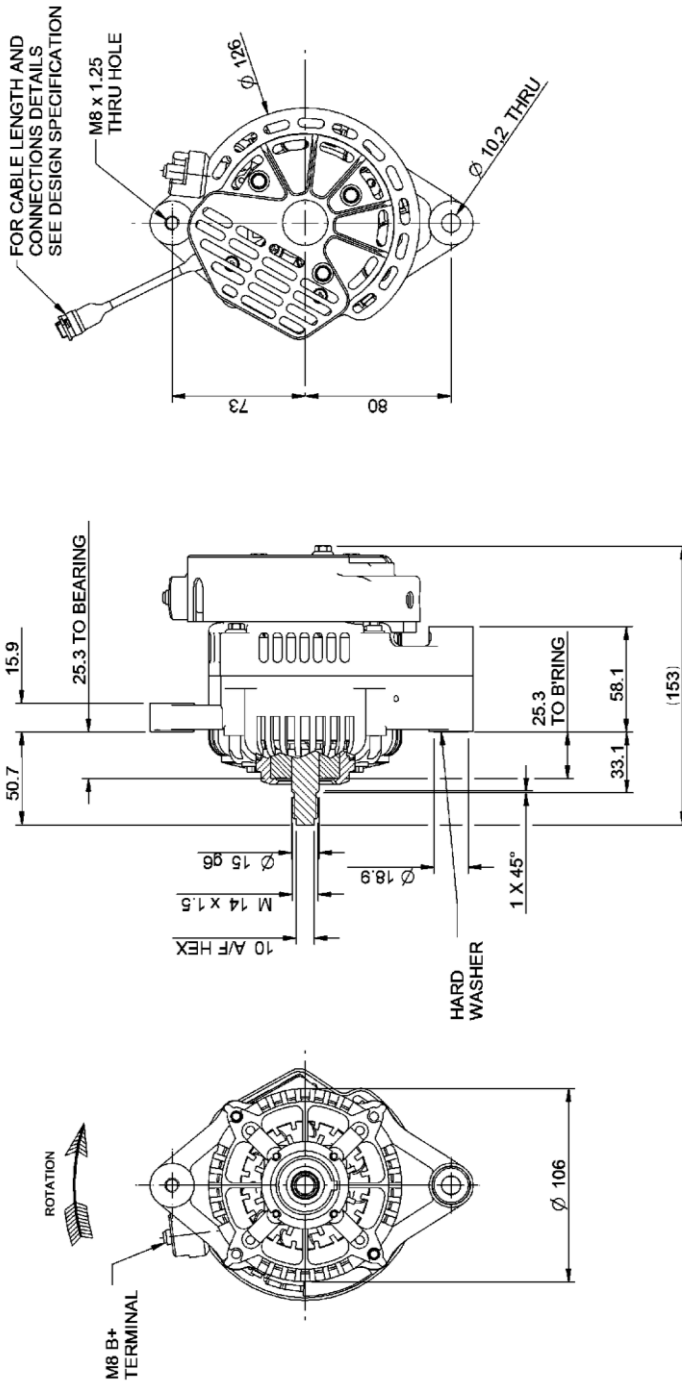


Speed (RPM)	Voltage	Test Limit (Amps)
5000	13.5	77
6000	13.5	112
7000	13.5	140
8000	13.5	156
9000	13.5	169
10000	13.5	180
11000	13.5	189
12000	13.5	197
13000	13.5	204
14000	13.5	212
15000	13.5	219

McLaren Applied Technologies can service and repair alternators.
Please contact our technical consultancy service for more information.

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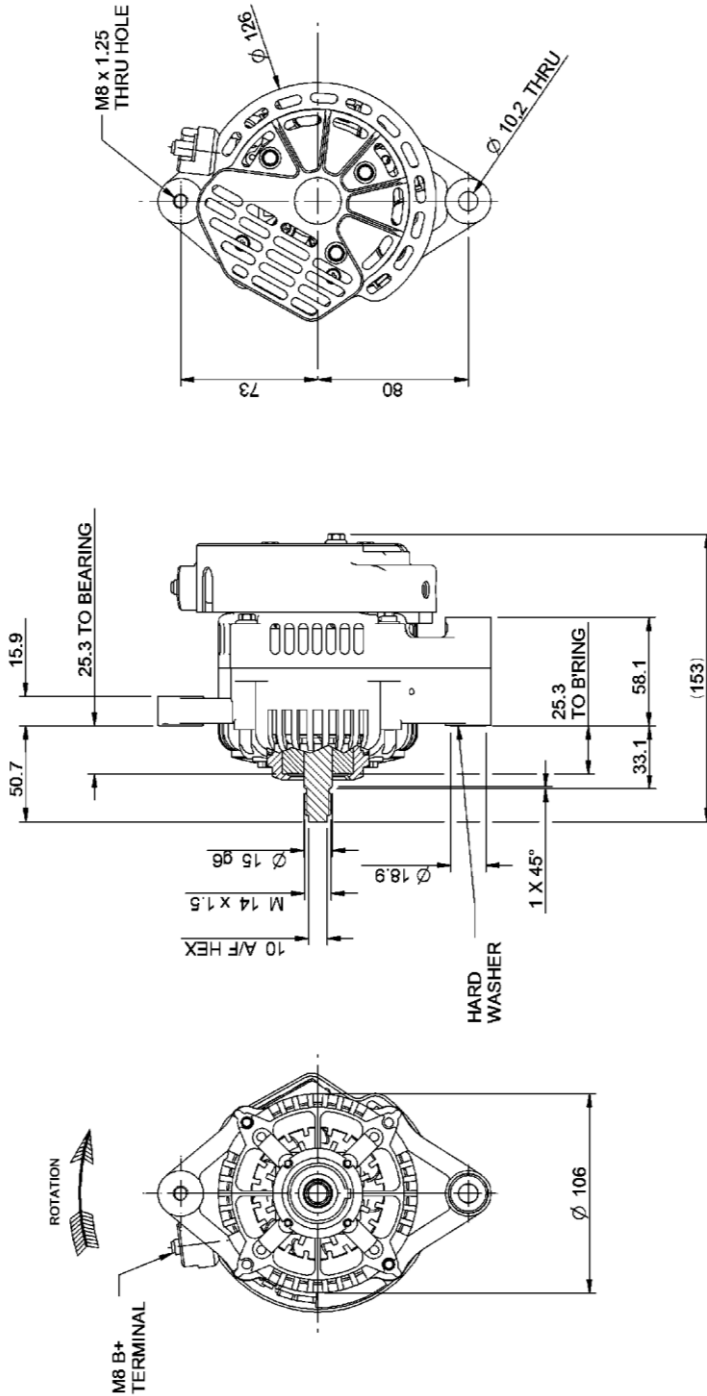
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Output	Rotation	Cable Length	Connector	Order Code
180A	Clockwise	300mm	ASL6-06-05-PN	0 030 650 005 115
180A	Anti - Clockwise	None	None	0 030 650 005 125
180A	Clockwise	470mm	ASL6-06-05-PN	0 030 650 005 163

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Order Code	O 030 650 005 116
Connector	N/A
Cable Length	Single Connection
Rotation	Clockwise
Output	180A