



## Selecting a Racing Alternator

**Please follow these steps in order to assure the proper alternator selection:**

- 1- Determine your engine idle rpm
- 2- Determine your engine average rpm during pit stops.
- 3- Determine your engine average rpm during caution flag situations.
- 4- Determine your engine peak racing rpm.
- 5- Determine your engine average operational temperature.
- 6- Determine if the car load is going to be managed or constant... Constant means that all the accessories are going to stay ON during the entire race. Managed means that the accessories will be turned on and off by the driver and there will be periods of low amperage load.
- 7- Make a list of the electrical system's components... ignition, fans, lights, cooling units, etc... Usually some of the components may list the electrical operational requirements. Please make a sum of the maximum amperage required to operate each accessory. If not available, contact the manufacturer for the information.
- 8- The sum of the amperage load represents your vehicle's total current load.
- 9- From the following list, select an alternator that will suit your amperage rating.

UNIT WEIGHT LBS	7.00	7.00	7.00	8.00	8.00	9.00	9.00	13.00
RACE CAR AMP LOAD	ND50	ND50-75	ND85	ND105	ND85-120	ND110	ND160	ND200
0-45	C-M	C-M						
0-75		C-M	C-M	C-M				
0-85			M	C-M	C-M	C-M		
0-105					C-M	C-M		
0-125					M	M	C-M	C-M
0-150							C-M	C-M
0-175								M
0-200	CALL							
200 UP	<b>What</b>	<b>in</b>	<b>the</b>	<b>world</b>	<b>are</b>	<b>you</b>	<b>building</b>	<b>???</b>

C=Constant Load M=Managed Load

Now that you have determined the output and a possible alternator is time to get the pulley ratio setup. Please refer to the **Pulley Ratio** file in the **Products>Downloads** section.

For further information, please download the **Alternator Selection Form**, fill it out and fax it to 912-285-9506 or send it to [info@raceproven.com](mailto:info@raceproven.com)