



## 24 VDC ALTERNATOR ENGINE DRIVEN POWER PACKAGES

- 24 VDC POWER SOURCE
- SUPPLIES UP TO 70 WATTS POWER
- PERMANENT MAGNET ALTERNATOR — NO ARCING COMPONENTS
- CERTIFIED FOR USE IN CLASS I, DIVISION 2, GROUP D AREAS
- AVAILABLE FOR FLANGE MAGNETO DRIVES OR BELT-DRIVEN
- TWO VERSIONS AVAILABLE

The Altronic 24 VDC alternator/regulator packages provide a reliable, engine-mounted source of DC power for Altronic DC-powered digital ignition systems, other engine accessories and/or control panels.

There are two versions available:

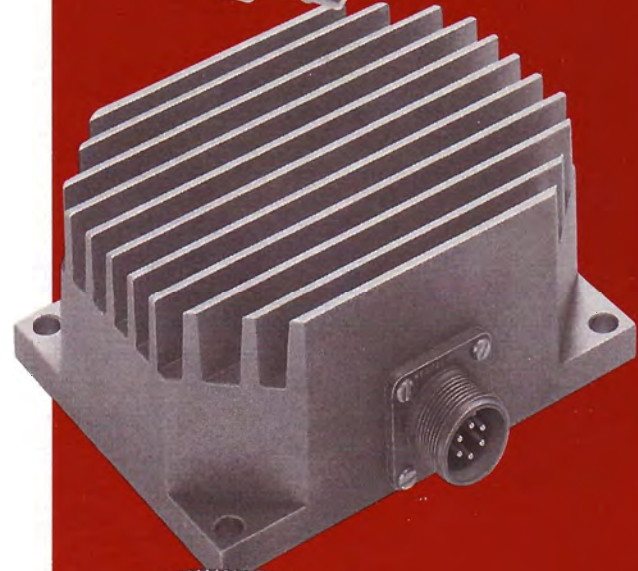
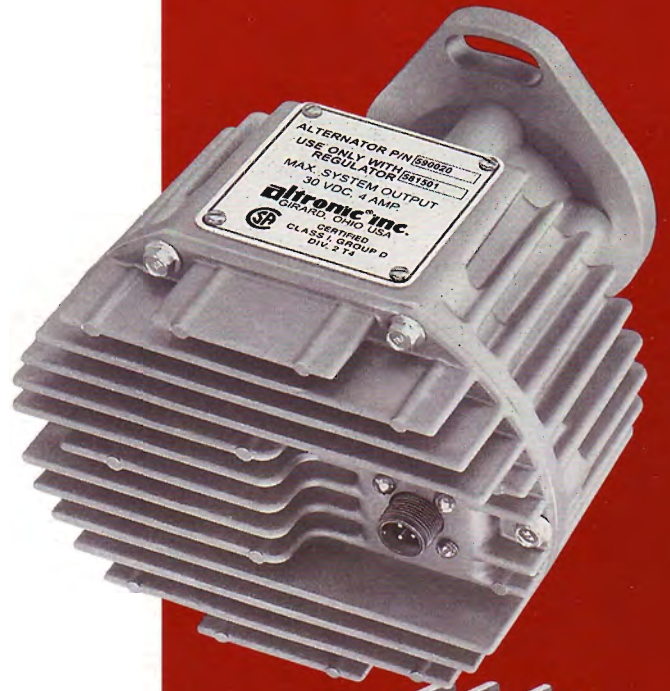
### VERSION I— DC POWER FOR IGNITION AND CONTROL

**ACCESSORIES:** The Version I alternator provides up to 70 watts (3 amps) output at 1,800 RPM. This unit is used with the 581501 regulator and 591100 battery pack assembly. Engines operating in remote areas can now use advanced accessories such as the Altronic DISN or CPU-95 ignition systems, Altronic electronic air/fuel ratio controllers, and other DC-powered accessory devices and instrument panels.

### VERSION II — ALTERNATOR-POWERED DIGITAL IGNITION

**SYSTEM:** The Version II alternator in conjunction with the 581502 regulator is designed to power the Altronic CD1, CPU-90 or DISN ignition system, thus constituting a self-powered, digital ignition system. These combinations operate from low cranking speeds to full operating RPM (see chart on back) with no batteries required.

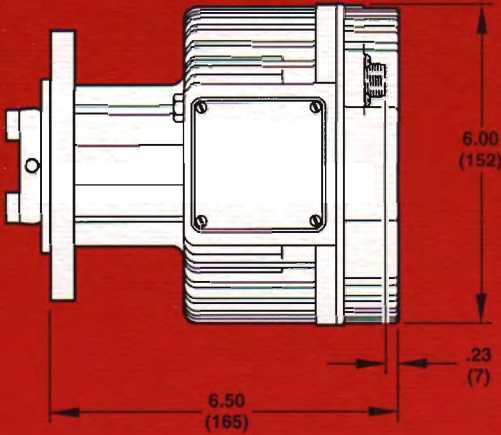
Adaptation to any engine model is provided by coupling and belt-driven models. The coupling-driven models are available with any Altronic III flange assembly for mounting flexibility.



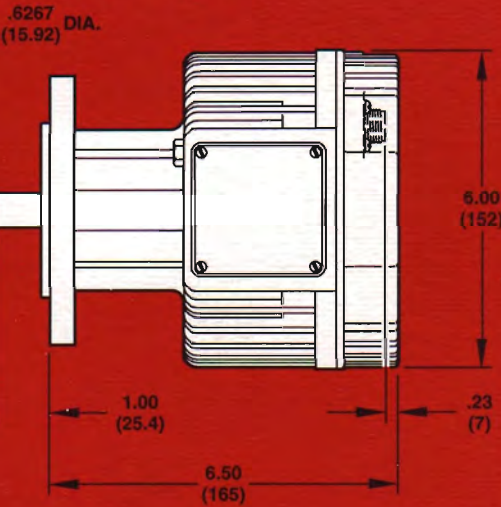
CERTIFIED  
CLASS I, DIVISION 2, GROUP D

## DIMENSIONS

### 590110/590111 SERIES



### 590116/590117 SERIES



## TO ORDER

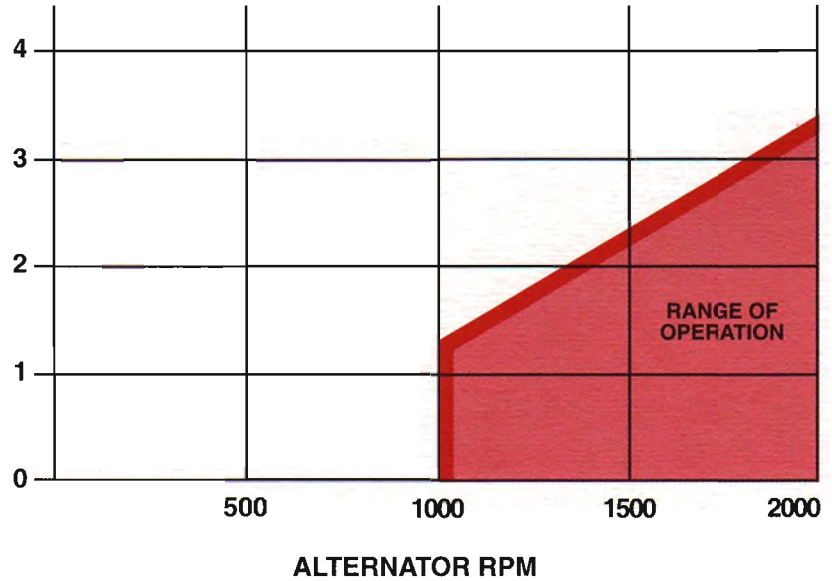
ITEM	VERSION I	VERSION II
<b>ALTERNATOR</b>		
Coupling-driven	590110-A	590111-A
Belt-driven	590116-G	590117-G
<b>REGULATOR</b>	581501	581502
<b>BATTERY PACK</b>	591100	—
<b>CABLE ASSEMBLIES</b>		
Unshielded 48"		593060-1
Unshielded 120"		593060-2
Shielded 180° (x inches)	593022-x (Alt. to J-box)	
Shielded 90° (x inches)	593027-x (Alt. to J-box)	
Shielded 48"		593058-1
Shielded 120"		593058-2

\* -A flange mount, vertical SAE  
 -D flange mount, horizontal 3" pilot  
 -G flange mount, horizontal 2-slot  
 -GV flange mount, vertical 2-slot

## APPLICATION DATA

**VERSION I** Powers DC ignition and instrumentation within available output shown below. Battery pack provides power under starting conditions.

Amps @ 24VDC



**VERSION II** Directly powers Altronic CD1, CPU-90, DISN ignition system per application chart below.

NO. CYLINDERS	CYCLE	MINIMUM ALTERNATOR DRIVE RATIO*	ENGINE RPM	
			MIN.	MAX.
4 or less	2	1:1	60	1,800
8 or less	2	2:1	30	900
10 or less	2	2.5:1	25	750
16 or less	2	3:1	25	600
8 or less	4	1:1	60	1,800
10 or less	4	1.25:1	50	1,500
16 or less	4	1.5:1	50	1,200

\* Alternator RPM : Engine RPM. Ratio listed as minimum to achieve proper operation of CPU-90 (-100 model) and DISN ignition.

**altronic<sup>®</sup>**  
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