

# DynaGen™

## ES52



## AUTOSTART CONTROL FOR DIESEL AND GAS ENGINES

### HIGHLIGHTS

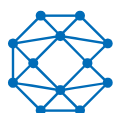
- Designed to provide autostart control and protection for all types of diesel and gas engine-driven equipment
- Module is epoxy sealed for protection against shock, vibration, and moisture, in an ultra-compact package with mounting compatibility to an industry standard footprint.
- Easily configured using on-board DIP switches and potentiometer adjustments
- Built in quick connect spade connections and screw terminals with no proprietary harness requirements
- Speed sensing with Mag Pickup, alternator tach output, or genset frequency output with 300V maximum direct connection
- Simple installation and servicing

### FEATURES

- Multi-function timer output for preheat, slow, airgate and choke
- Warm-up timer output
- Detects lost speed signal
- Zero speed restart prevents starter pinion wear
- 20A removable relays and a fuse eliminate slave relays and external fusing in most installations (fuel/crank circuits are rated 20A combined)
- Field settings with potentiometers and DIP switches
- Setup mode for quick calibration

### VARIANTS

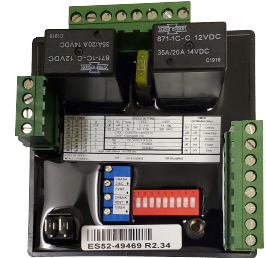
- Preset calibration with fixed settings to prevent tampering
- Under-speed shutdown
- Mid-heat and post-heat functions (during and after cranking)
- Cool-down timer
- Pull/hold call control for fuel solenoid
- Momentary inputs for multiple start/stop locations
- Inputs for photocell start/stop control





## TECHNICAL DATA AND SPECIFICATIONS

Operating Voltage	7 to 32 VDC continuous. Standby current draw: 12mA Load dump: J1113-11 Pulse 5a Reverse polarity protected
Operating Temperature	-40°C to 70°C
Dimensions	3.3" H x 3.3" W x 1.8" D
Weight	0.67 lb
Mounting	Industry standard mounting configuration
Connectors	Eurostyle removable connectors
Speed Sensing	User selectable sensing ranges Magnetic pickup: 1V to 300V Generator output: up to 300 VAC direct Accepts tachometer signal from belt driven alternator Loss of speed signal protection during cranking and running (can be disabled while cranking)
Failure Inputs:	Low oil pressure failure* (closed on failure) High engine temperate failure* (closed on failure) Auxiliary failure* (closed on failure)
Outputs:	Fuel and crank: high capacity replaceable automotive relays Rated 20A combined Switched to battery positive 12 or 24 VDC battery system (select appropriate relay for system voltage) Short circuit and overload protection on annunciation outputs (rated 300 max)
Warranty	Five-year warranty or 17,500 hours



**ES52 with on-board 20A relays, fuses and annunciator strip**

\* Failure inputs can close to either +battery or ground. All failure inputs are ignored for a period of 15 seconds at engine startup.

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