

# EC-02

## Auto Start Control Unit for DENYO Generator

### Features

- Specially designed for DENYO generators without Auto Start function
- Microprocessor-based programmable controller
- Small size, low cost and high stability
- Very low power consumption in standby mode
- Potentiometer time delay settings
- Three cranking attempts
- Generator fault indicator and alarm output contacts
- Terminal block connections for easy installation and maintenance
- Energize-to-Run and Energize-to-Stop options
- The circuit board is potted with UL94-V0 rated epoxy resin to allow use in harsh environments
- Works with both 12V and 24V generators



### Specifications

<b>DC Power Input</b>	Voltage 9 to 36 Vdc	<b>Start Signal Output (START)</b>	30 Amp @ 12/24 Vdc
<b>AC Power Input</b>	Voltage 100 to 250 Vac	<b>Pre-heat Signal Output (PRE-HEAT)</b>	30 Amp @ 12/24 Vdc
	Frequency 50/60 Hz	<b>Common Alarm Output (FAIL)</b>	3 Amp @ 12/24 Vdc
<b>Static Power Dissipation</b>	Less than 0.5 VA	<b>P2 terminal Output</b>	5 Amp @ 12/24 Vdc
<b>Accessory Signal Output (ACC)</b>	10 Amp @ 12/24 Vdc	<b>AR/O terminal Output</b>	5 Amp @ 12/24 Vdc

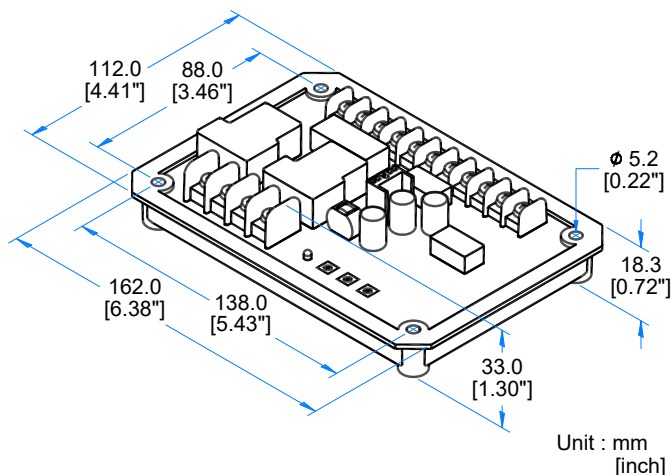
### Time Delay Settings and Adjustments

<b>Engine Shutdown Timer (VR1)</b>	1 to 20 seconds
<b>Engine Pre-Heat Timer (VR2)</b>	1 to 10 seconds
<b>Engine Cranking Timer (VR3)</b>	1 to 20 seconds

### LED Status Indicators

<b>Alarm Indicator LED (L1)</b>	Engine Start Failure
	No AC volt when engine is running
	Engine Failure Shutdown

### Dimensions



### Environment

<b>Operating Temperature</b>	-20 to +60 °C
<b>Storage Temperature</b>	-20 to +80 °C
<b>Relative Humidity</b>	Max. 95%
<b>Vibration</b>	5.0 Gs @ 60 Hz

### Physical Specifications

<b>Dimensions</b>	162.0 (L) x 112.0 (W) x 33.0 (H) mm 6.38 (L) x 4.41 (W) x 1.30 (H) inch
<b>Weight</b>	550 g +/-2% 1.21 lb +/-2%

\*All manufacturer names and numbers are used for reference purpose only and do not imply that any part is the product of these manufacturer.



**KUTAI ELECTRONICS INDUSTRY CO., LTD.**  
TEL : +886-7-8121771 FAX : +886-7-8121775 Website : [www.kutai.com.tw](http://www.kutai.com.tw)  
Headquarters : No.3, Ln. 201, Qianfu St., Qianzhen Dist., Kaohsiung City 80664, Taiwan

