

# ECU-04 / ECU-05

## Auto-Start module for Manual Key Start Gensets

Adds auto start or remote start capability to any key start genset

### Features

- Microprocessor-based engine control unit adds remote start and stop capability from an external Start / Stop signal
- Terminals connect directly to key start switch, requiring no change to wiring
- Compact size and low power consumption
- For use with both diesel and gasoline engine generators
- Multiple Cranking attempts in case of failed start
- Circuits protected with 94-V0 Epoxy for installation in harsh environments
- Able to control "Energize to Stop" engines (ECU-05)
- Adjustable time delay potentiometers – "Engine Preheat" time or Engine Shutdown timer (depending on mode) and Starter Cranking time
- User defined auxiliary output indicates whether engine is running (open)



ECU-04/ECU-05  
www.kutai.com.tw

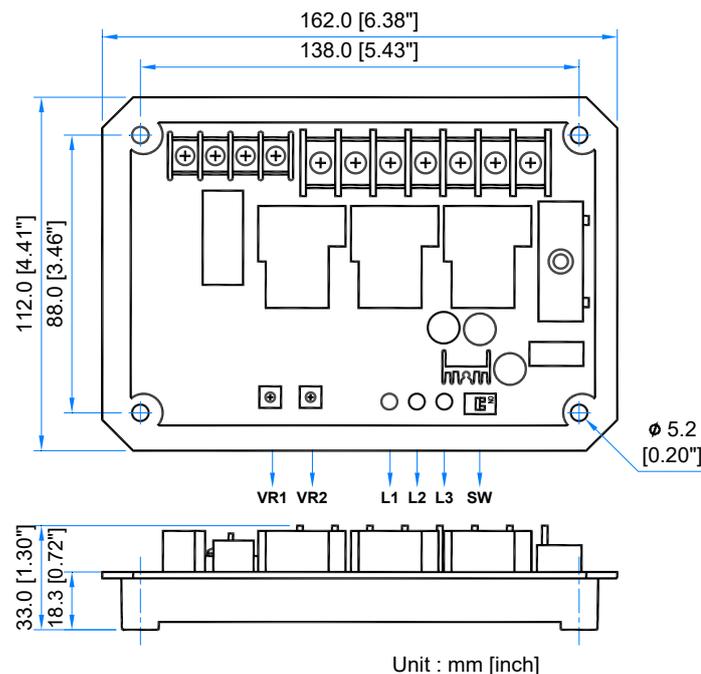
### Specifications

<b>DC Power Supply</b>	9 Vdc - 36 Vdc	<b>Ignition &amp; Accessories Signal Output</b>	30 Amp @ 12/24 Vdc
<b>Alternator Input Range</b>	Voltage 100 to 240 Vac Frequency 50 to 60 Hz	<b>Start Signal Output</b>	30 Amp @ 12/24 Vdc
<b>Static Power Consumption</b>	Less than 0.03 watts	<b>Pre-Heat or Carburetor Signal Output</b>	30 Amp @ 12/24 Vdc
		<b>Auxiliary Signal Output</b>	20 Amp @ 12/24 Vdc

### Time Delay Setting And Alarm Indicators

		ECU-04	ECU-05
<b>L1</b>	Remote start activated indicator LED	<b>SW On</b> For use on diesel engine with Pre-Heat	For use terminal NO.3 with Pre-Heat function
<b>L2</b>	Generator running indicator LED		
<b>L3</b>	Start fail indicator LED	<b>SW Off</b> For use on gasoline engine with carburetor	For use terminal NO.3 with energize to stop function
<b>VR1</b>	Engine Pre-Heat time adjustment (1 to 20 seconds)		
<b>VR2</b>	Starter cranking time adjustment (1 to 20 seconds)		
<b>SW</b>	Function selectable switch		

### Dimensions



### Environment

<b>Operating Temperature</b>	-20 to +60 °C
<b>Relative Humidity</b>	Max. 95%

### 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>	ECU-04/ECU-05 465 g +/-2% 1.025 lb +/-2%

