# ECU-04 / ECU-05

Universal Add-on Auto-Start Control For All Manual Key Start Generator Sets

Features

- Microprocessor Automatically Mimics The Manual Start Procedure
- Simple Installation, Without Changing Original Wiring
- Easy to Set Up, low-cost, Small Size, Low Power Consumption
- For Use In Gasoline And Diesel Generators
- Three Attempts Multi-Start Function
- Circuits Are Protected With 94-V0 Epoxy
- Two Adjustable Time Delay Potentiometers
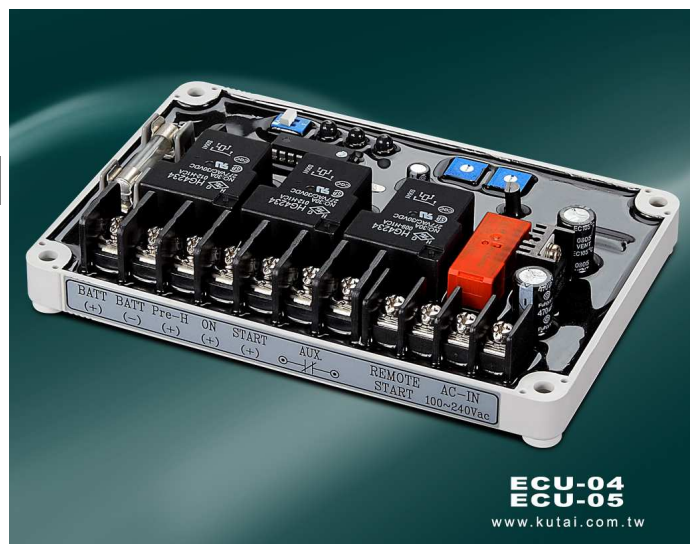
Specifications

DC Supply	12 VDC (ECU-XX-12V)	**Ignition & Accessories Signal Output**	30 Amp @ 12/24 VDC
	24 VDC (ECU-XX-24V)	**Start Signal Output**	30 Amp @ 12/24 VDC
Alternator Input Range	100~240 VAC	**Pre-Heat or Carburetor Signal Output**	30 Amp @ 12/24 VDC
	50~60 Hz	**Auxiliary Signal Output**	20 Amp @ 12/24 VDC

Time Delay Setting And Alarm Indicators

L1	Remote Start Activated Indicator LED	**VR1**	Engine Pre-Heat Time Adjustment (1~25 Seconds)
L2	Generator Running Indicator LED	**VR2**	Starter Cranking Time Adjustment (1~25 Seconds)
L3	Start Fail Indicator LED	**SW**	Function Selectable Switch

Environment

Operating Temperature	-20~80 ℃	**Relative Humidity**	Maximum 95%

Mechanical Specifications   *(Unit : mm)*
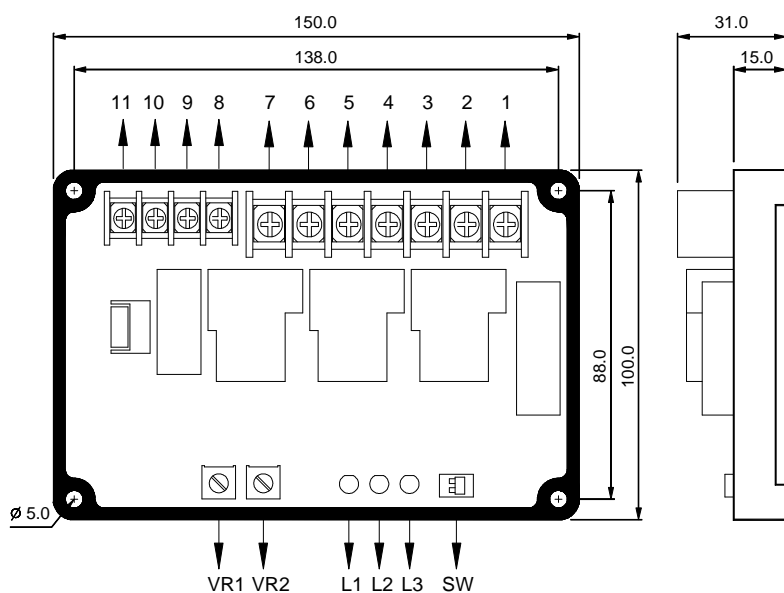
ECU-04

SW On	For Use on Diesel Engine with Pre-Heat
SW Off	For Use on Gasoline Engine with Carburetor

ECU-05

SW On	For Use Terminal NO.3 with Pre-Heat Function
SW Off	For Use Terminal NO.3 with Energize to Stop Function

Physical Specification

Dimensions	150.0 (L) x 100.0 (W) x 31.0 (H) mm	
Weight	ECU-04	368 g ±2%
	ECU-05	373 g ±2%