

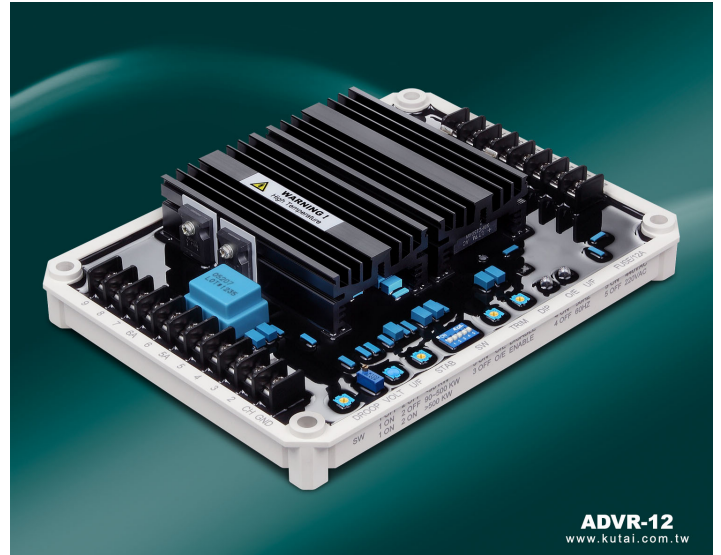
# ADVR-12

## Universal Hybrid Analog-Digital Three Phase 12Amp Shunt, Auxiliary Winding or PMG Automatic Voltage Regulator

Compatible with Basler AVC63-12, AVC125-10, CATERPILLAR VR6, Kato K65-12B & K125-10B, Leroy Somer 202-8634 regulators

### Features

- 1 or 3 phase sensing input & power input
- Voltage regulation less than +/-0.5%
- 220/380/440/480 Vac programmable input
- DIP switch selectable 50/60 Hz
- Multiple excitation system compatibility: SHUNT, AUX, PMG
- Inverse-time over excitation protection
- Under frequency protection and soft start voltage ramping
- EMI suppression
- Built-in high capacity protection fuse
- Apply with KUTAI [IVT-1260/IVT-2460](#) to exceeds normal generator motor starting capabilities

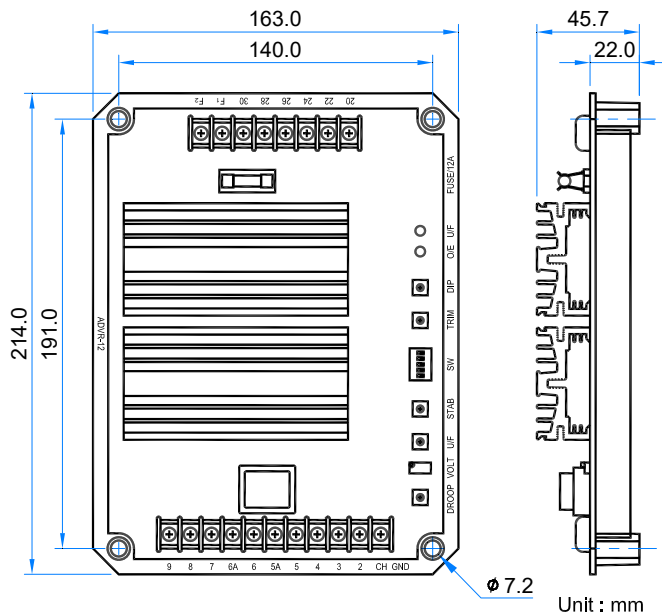


ADVR-12  
www.kutai.com.tw

### Specifications

<b>Sensing Input</b>	Voltage 180 to 520 Vac 1 or 3 phase selectable	<b>EMI Suppression</b>	Internal electromagnetic interference filtering
	Frequency 50/60 Hz selectable	<b>Over Excitation Protection</b>	Inverse-time 125+/-5 Vdc @ power input 220 Vac
<b>Power Input</b>	Voltage 60 to 300 Vac 1 or 3 phase	<b>Ext. Volts Adjustment</b>	+/-5% @ 10K ohms 1 watt potentiometer
	Frequency 50 to 500 Hz	<b>Soft Start Ramp Time</b>	4 seconds +/-10%
<b>Output</b>	Voltage Max. 125 Vdc @ power input 220 Vac	<b>Voltage Thermal Drift</b>	Less than 3% at temperature range -40 to +70 °C
	Current Continuous 12A Intermittent 25A for 10 secs.	<b>Analog Input</b>	Un 0 to 10% @ 0 to 10 Vdc or +/-0.5 Vdc
	Resistance $\geq$ 5 ohms @ power input 110 Vac	<b>Quadrature Droop Input</b>	CT 1A/5A Max. +/-5% @ P.F +/-0.7
	$\geq$ 11 ohms @ power input 220 Vac	<b>Under Frequency Protection (Factory Presets)</b>	
<b>Burden in Shunt &amp; PMG Wiring</b>	1320 VA @ power input 110 Vac		50 Hz system presets knee point at 45 Hz
	2640 VA @ power input 220 Vac		60 Hz system presets knee point at 55 Hz
<b>Voltage Regulation</b>	Less than +/-0.5% (with 4% engine governing)		(-40 to +70°C deviation 0.1 Hz)
<b>Build Up Voltage</b>	6 Vac 25 Hz residual volts at power input terminal		
<b>Static Power Dissipation</b>	Max. 12 watts		

### Dimensions



### AVR Control Functions

<b>VOLT</b>	Voltage adjustment
<b>STAB</b>	Stability adjustment
<b>U/F</b>	Setting under frequency protection knee point
<b>DROOP</b>	Current compensation droop adjustment
<b>TRIM</b>	Analogue input adjustment
<b>DIP</b>	Voltage droop ratio setting

### Indication LED

<b>O/E LED</b>	Over excitation protection indicator
<b>U/F LED</b>	Under frequency protection indicator

### Environment

<b>Operating Temperature</b>	-40 to +70 °C
<b>Storage Temperature</b>	-40 to +85 °C
<b>Relative Humidity</b>	Max. 95%
<b>Vibration</b>	3.0 Gs @ 100 to 2K Hz

### Physical Specifications

<b>Dimensions</b>	214.0 (L) x 163.0 (W) x 45.7 (H) mm
<b>Weight</b>	1130 g +/-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.