

EA321

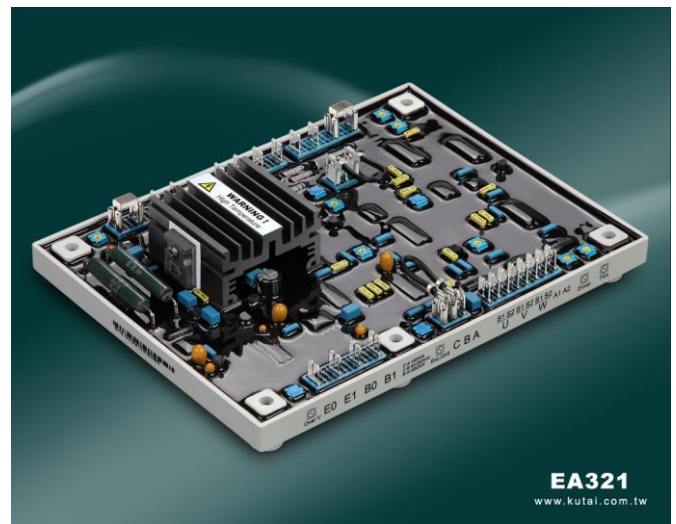
Permanent Magnet Generator Type AVR

Compatible with Newage* Stamford MX321 regulator

Features

- Voltage regulation less than $\pm 0.5\%$ RMS
- For use in parallel operation
- RAMP, DIP, DWELL, DROOP, RMS, U/F, Over Voltage & Over Excitation adjustment functions
- Over Exc. /Over Volt. & UFRO LED indicators
- Current limiting function

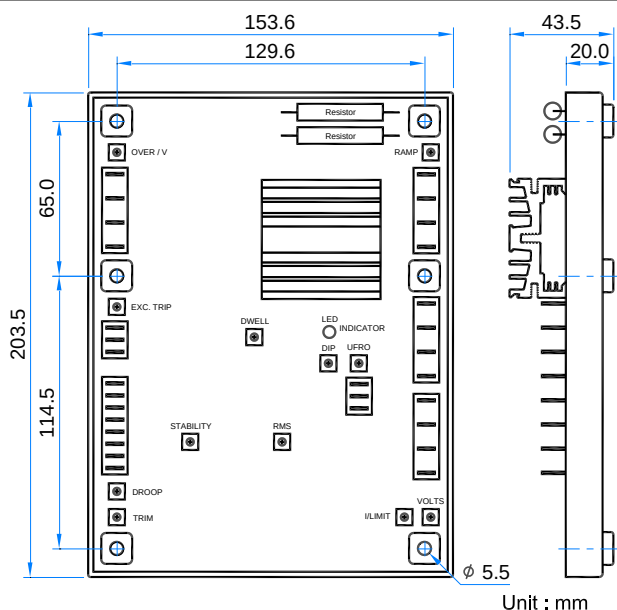
*All manufacturer names, numbers, symbols and descriptions are used for reference purpose only and do not imply that any part is the product of these manufacturer.



Specifications

Sensing Input	Voltage	190-264 Vac 3 phase	Droop Input	Burden	10 ohms
	Frequency	50/60 Hz selectable		Max. sensitivity	0.22A for 5% droop (PF=0)
Power Input (PMG)	Voltage	170-220 Vac 3 phase 3 wire		Max. input	0.33A
	Current	3A / phase	Under Frequency Protection (Factory Settings)		
	Frequency	100-120 Hz nominal		Set point	95% Hz
Output	Voltage	Max. 120 Vdc		Slope	100-300% down to 30 Hz
	Current	Continuous 4A, Intermittent 7A for 60 sec.		Max. Dwell	20% volts/sec. recovery
	Resistance	Min. 15 ohms	Current Limit Input	Burden	10 ohms
Voltage Regulation	< $\pm 0.5\%$ RMS (with 4% engine governing)			Sensitivity range	0.5-1A
Build Up Voltage	Residual volts at AVR terminal > 5 Vac			Over Voltage Detector Input	
External Volts Adjustment	$\pm 10\%$ with 5K ohms 1 watt trimmer			Set point	300V Time delay 1 sec. (fixed)
Unit Power Dissipation	Max. 18 watts			CB trip coil volts	10-30 Vdc / 0.5 Amp
Thermal Drift	0.05% per $^{\circ}\text{C}$ change in AVR ambient			Over Excitation Protection	Set point 120 Vdc Time delay 8-15 sec.
Soft Start Ramp Time	0.4-4 sec.			Environment	Operation Temperature -40 to $+65^{\circ}\text{C}$
Analogue Input	Max. input	± 5 Vdc		Storage Temperature	-40 to $+80^{\circ}\text{C}$
	Sensitivity	1V for 5% generator volts		Relative Humidity	Max. 95%
	Input resistance	1K ohm		Vibration	3.3Gs @ 100-2K Hz

Mechanical Specifications



AVR Control Functions

VOLT	Output voltage adjustment
STAB	Stability adjustment
UFRO	UFRO knee point set
DROOP	To set the Droop to 5% at PF=0
TRIM	To optimize analogue input sensitivity
EXC TRIP	Over excitation trip level set
DIP	Hz related voltage DIP set
DWELL	Hz related recovery time set
I / LIMIT	Stator current limit set
OVER / V	Over voltage trip level set
RAMP	No load voltage ramp set time
RMS	Root mean square of generator

Physical Specifications

Dimension	203.5 (L) x 153.6 (W) x 43.5 (H) mm
Weight	530 g $\pm 2\%$



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