

IPUA341

Permanent Magnet Generator Automatic Voltage Regulator

Permanent Magnet Generator type voltage regulator is a compatible replacement for Newage Stamford MX341 regulator.



Features

- $< \pm 1\%$ RMS Regulation
- 3 Phase PMG Power Input
- For Use In Parallel Operation
- Adjustable EXC TRIP, DIP, TRIM & DROOP Functions
- Soft Start Voltage Ramping
- Under Frequency Roll Off Protection
- UFRO & Over Excitation LED Indicators

Specification

Sensing Input	Voltage 190~264 VAC, 1 Phase 2 Wire, Frequency 50/60 Hz Selectable
Power Input(PMG)	Voltage 170~220 VAC, 3 Phase 3 Wire Current 3A/Phase Frequency 100~120 Hz Nominal
Output	Voltage Max. 120 VDC Current Continuous 2.7A, Intermittent 6A for 10 sec. Resistance Min. 15 Ω
Voltage Regulation	$< \pm 1\%$ RMS (with 4% engine governing)
Voltage Build-up	Residual volts at AVR terminal > 5 VAC
Soft Start Ramp Time	2 sec.
Thermal Drift	0.05% per $^{\circ}\text{C}$ change in AVR ambient
Unit Power Dissipation	Max. 12 Watt

IPUA341 Specification (cont)

External Volts Adjustment	± 10% with 1 KΩ 1 watt trimmer
Over Excitation Protection	Set point 75 VDC, Time delay 10 sec.
Under Frequency Protection(UFRO)	Set Point 95% Hz, Slope 170% down to 30 Hz
Analogue Input	Max. Input ± 5 VDC, Sensitivity 1V for 5% generator volts, Input Resistance 1 KΩ
Drop Input	Burden 10Ω, Max. sensitivity 0.07A for 5% droop (PF=0), Max. input 0.33A
Environment	Operating Temperature : -40~70 °C Storage Temperature : -40~85 °C Relative Humidity : Maximum 95% Vibration : 3.3G @ 100~2 KHz
AVR Controls Functions	VOLT : Voltage Adjustment STAB : Stability Adjustment U/F : UFRO Knee point Set DROOP : Droop Adjustment TRIM : Analogue Input Adjustment EXC TRIP : Over Excitation Level Set DIP : U/V Rate Set
Dimensions	150.0(L) x 135.0(W) x 40.0(H) mm

(UNIT : mm)

