



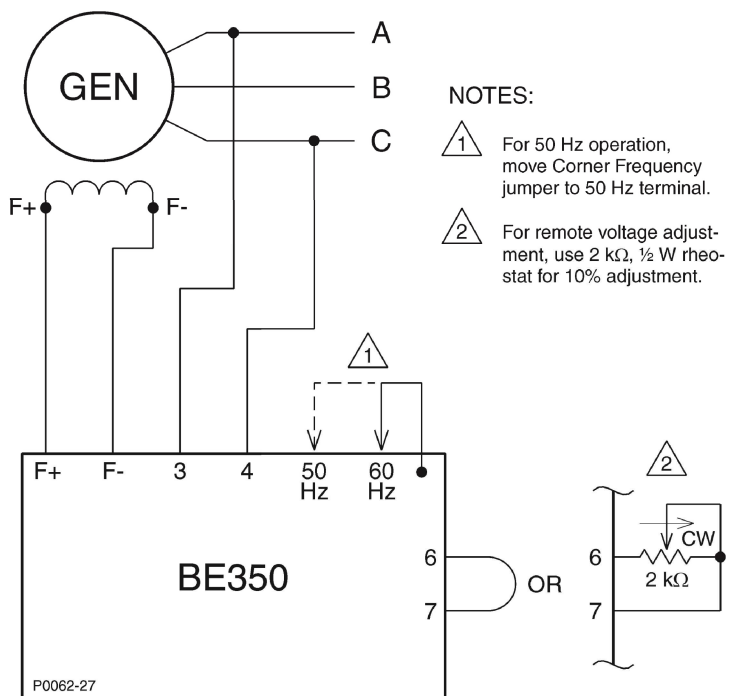
Using enhanced technology, the BE350 voltage regulator is designed for use on 50/60 Hz brushless generators. This potted regulator is economical, small in size, and ruggedly constructed. It incorporates solid state technology with frequency compensation, automatic voltage build-up and EMI (electromagnetic interference) filtering as standard.

FEATURES

- Integrated circuitry for compact size, simplicity, and high reliability
- Extremely rugged
- Exciter field current 3.5 A continuous, 5 A forcing
- Regulation accuracy better than $\pm 1.0\%$ no-load to full-load
- Fast response
- Frequency compensation
- Internal fuse protection
- EMI suppression

BENEFITS

- Underfrequency compensation provides the ability to shed load to help improve generator recovery speed, which prevents generator damage and assists the machine to pick up critical loads.
- Integrated overexcitation protection removes excitation in potentially damaging conditions, protecting both the generator and the excitation system.
- Rugged construction and potted design for installation in harsh environments allows dependable operation to reduce or eliminate expensive service calls.
- Plug-and-play replacement for Marathon® Electric's SE350 for quick retrofitting.



Visit WWW.BASLER.COM
FOR ADDITIONAL INFORMATION AND
STYLE CONFIGURATION TOOL.

Figure 1 - BE350 Typical Connections

SPECIFICATIONS

Field Output

Maximum Continuous: 3.5 A dc at 73 V dc (255 W)
One-Minute Forcing: 5 A dc at 105 V dc (525 W) (with 240 Vac input)

Exciter Field DC Resistance: 21 Ω minimum

Input Power

Range: 190 to 240 Vac, $\pm 10\%$, 1-phase
Frequency: 50/60 Hz, $\pm 10\%$
Burden: 500 VA

Voltage Sensing

Range: 190 to 240 Vac, $\pm 10\%$ 1-phase
Frequency: 50/60 Hz $\pm 10\%$
Burden: < 1 VA

Power Dissipation

Maximum 8 W

Fuse

Bussmann GDC-4A or equivalent
Rating: 4 A ac, 250 Vac
Type: Glass tube, 5 x 20 mm, time delayed

Voltage Adjustment Range

171 to 264 Vac

Regulation Accuracy

Better than $\pm 1.0\%$, no-load to full-load

Response Time

< 1.5 cycles for $\pm 5\%$ change in sensing voltage

EMI Suppression

Internal EMI filtering

Voltage Buildup

Automatic voltage buildup occurs for residual generator voltages as low as 10 Vac

Environmental

Operating Temp: -40°C to 60°C (-40°F to 140°F)
Storage Temp: -65°C to 85°C (-85°F to 185°F)
Shock: 20 G in three perpendicular axes
Vibration:
2 to 27 Hz: 1.3 G
27 to 52 Hz: 0.914 mm double-amplitude
52 to 1000 Hz: 5 G

Physical

Weight: 6.5 oz (184 g) net
Dimensions (WxHxD):
2.66" x 3.94" x 1.89"
(67.6 mm x 100.0 mm x 48.0 mm)

Agency Certification

UL recognized, CSA certified

For complete specifications, download the instruction manual at www.basler.com.

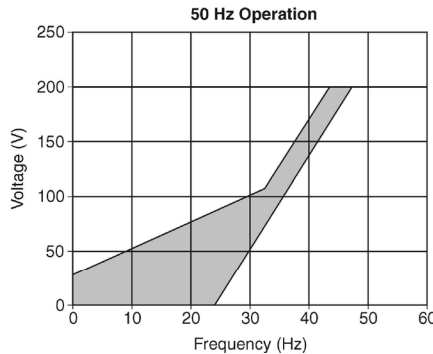
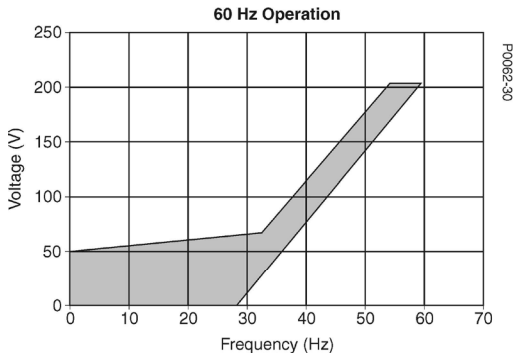


Figure 2 - Frequency Compensation Characteristics

RELATED PRODUCTS

- [BE1-11g Generator Protection System](#)
 - Designed with a complete line of protection and control elements.
- [BE2000E Digital Voltage Regulator](#)
 - Designed to control the output of brushless excited synchronous generators equipped with single-phase PMGs.
- [BE3 Series Industrial Relays](#)
 - Provide a wide range of cost-saving options to simplify industrial application protection.
- [BE300PM Voltage Regulator](#)
 - A small, rugged, automatic voltage regulator designed to be used with a 240 V PMG.
- [DECS-100 Digital Excitation Control System](#)
 - Provides precise voltage regulation and exceptional system response, as well as valuable protection of the generator and excitation system.
- [DGC-2020ES Digital Genset Controller](#)
 - The total system solution for emergency and stand-alone generator set applications.
- [DGC-2020HD Digital Genset Controller](#)
 - A highly advanced integrated genset control system for your emergency, stand-alone, and paralleled generator set applications.

ACCESSORIES

- Motor Operated Potentiometer
 - The Motor Operated Potentiometer is an electromechanical device containing a motor-driven, variable potentiometer and the limit switches required to provide remote adjustment of resistance, voltage, or frequency.



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