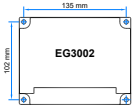
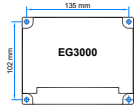
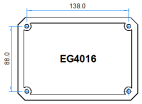
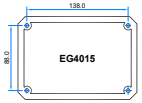
Comparison Table

EG model		EG3002	EG3002F	EG3002R	EG3000 (Discontinued)	EG4016	EG4015 (Discontinued)
Appearance							
Features		- Suitable for general constant speed generator engines. - Engine Start Smoke Limiting & Idle Speed settings - Newly added "extreme slow response" engine setting - Works with External, Built-in and PT-Pump type and hydraulic drive actuators	- Suitable for engines requiring a wide range of speed adjustment, ex. water pumps. - Engine Start Smoke Limiting & Idle Speed settings - Newly added "extreme slow response" engine setting - Works with External, Built-in and PT-Pump type and hydraulic drive actuators	- Suitable for normally open fuel circuit engines (engine speed decreases when ACT is energized). - Newly added "extreme slow response" engine setting - Works with External, Built-in and PT-Pump type and hydraulic drive actuators	- Engine Start Smoke Limiting & Idle Speed settings - Works with External, Built-in and PT-Pump type and hydraulic drive actuators	- Senses generator frequency, no magnetic pickup (MPU) is required - Selectable functions of Engine Speed Ramping or Immediate Start - Added START FUEL VR to adjust the maximum start fuel to suppress black smoke	- Senses generator frequency, no magnetic pickup (MPU) is required - Selectable functions of Engine Speed Ramping or Immediate Start
Operating Voltage		10 – 32 Vdc	10 – 32 Vdc	10 – 32 Vdc	10 – 30 Vdc	10 – 32 Vdc	10 – 32 Vdc
Outputs Current		Continuous 7A, Max. 15A for 10 seconds	Continuous 7A, Max. 15A for 10 seconds	Continuous 7A, Max. 15A for 10 seconds	From 0.5A to 15A	Continuous 9A, Max 15A for 10 seconds	Continuous 9A, Max 15A for 10 seconds
MPU Frequency input		10 – 10,000 Hz	10 – 10,000 Hz	10 – 10,000 Hz	600 – 9500 Hz (MPU signal)	No MPU (Sensing Frequency Range 5 – 100 Hz)	No MPU (Sensing Frequency Range 5 – 100 Hz)
MPU Voltage input		1 – 120 Vac	1 – 120 Vac	1 – 120 Vac	N/A	No MPU (Sensing Input Voltage Range 1 – 600 Vac)	No MPU (Sensing Input Voltage Range 1 – 600 Vac)
Idle Adjustment Range		30 – 90% of Normal Speed	30 – 90% of Normal Speed	N/A	Adjustable from 30 – 85% of Normal Speed	N/A	N/A
Speed Temperature Shift		-40 to +80 °C, less than 3%	-40 to +80 °C, less than 3%	-40 to +80 °C, less than 3%	-40 to +80 °C, less than +/-0.5%	N/A	N/A
Ramp Time		3 – 20 seconds (adjustable)	3 – 20 seconds (adjustable)	N/A	3 – 20 seconds (adjustable)	N/A	N/A
Remote Speed Adjustment Range		+/-7% @ 5 KΩ 1 Watt potentiometer	+/-30% @ 5 KΩ 1 Watt potentiometer	+/-7% @ 5 KΩ 1 Watt potentiometer	+/-5% @ 5 KΩ 1 Watt potentiometer	+/-2 Hz @ 5 KΩ 1 Watt potentiometer	+/-2 Hz @ 5 KΩ 1 Watt potentiometer
Isochronous Load Sharing (ILS)		+/-5 Vdc or 0 – 10 Vdc	+/-5 Vdc or 0 – 10 Vdc	+/-5 Vdc or 0 – 10 Vdc	N/A	N/A	N/A
Speed Droop (DROOP)		0 – 4% (adjustable)	0 – 4% (adjustable)	0 – 4% (adjustable)	0 – 4% (adjustable)	N/A	N/A
Stability		Speed variation less than +/-0.25% at constant load	Speed variation less than +/-0.25% at constant load	Speed variation less than +/-0.25% at constant load	Speed variation less than +/-0.25% at constant load	Speed variation less than +/-0.25% at constant load	Speed variation less than +/-0.25% at constant load
Static Power Consumption		Less than 1 Watt @ 12 Vdc, Less than 2 Watt @ 24 Vdc	Less than 1 Watt @ 12 Vdc, Less than 2 Watt @ 24 Vdc	Less than 1 Watt @ 12 Vdc, Less than 2 Watt @ 24 Vdc	N/A	Min. 120 mA @ 12 Vdc, Min. 60 mA @ 24 Vdc	Min. 120 mA @ 12 Vdc, Min. 60 mA @ 24 Vdc
Environment	Operating Temperature	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C
	Storage Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
	Relative Humidity	Less than 95%	Less than 95%	Less than 95%	Less than 95%	Less than 95%	Less than 95%
	Vibration	5.5 Gs @ 60 Hz	5.5 Gs @ 60 Hz	5.5 Gs @ 60 Hz	3.0 Gs @ 100-2K Hz	5.0 Gs @ 60 Hz	5.0 Gs @ 60 Hz
Control Characteristic Settings	**DROOP**	Speed Droop setting	Speed Droop setting	Speed Droop setting	Speed Droop setting	N/A	N/A
	GAIN	Gain setting	Gain setting	Gain setting	Gain setting	PID Actuator output gain adjustment	PID Actuator output gain adjustment
	INT	Integral setting	Integral setting	Integral setting	Integral setting	N/A	N/A
	DIF	Differential setting	Differential setting	Differential setting	Differential setting	PID Differential adjustment	PID Differential adjustment
	RAMP	Ramp Time	Ramp Time	N/A	Ramp Time	N/A	N/A
	IDLE SPEED	Idle speed setting	Idle speed setting	N/A	Idle speed setting	N/A	N/A
	RUN SPEED	Operating speed setting	Operating speed setting	Operating speed setting	Operating speed setting	50 Hz : 45 – 55 Hz · 60 Hz : 55 – 65 Hz (SPEED)	50 Hz : 45 – 55 Hz · 60 Hz : 55 – 65 Hz (SPEED)
	START FUEL	N/A	N/A	N/A	N/A	Maximum Starting Fuel adjustment	N/A
DIP Switch Settings	**SW1**	ON 600 – 1200 Hz	ON 600 – 1200 Hz	ON 600 – 1200 Hz	ON 600 – 1200 Hz	Actuator types OFF : External or Internal mount · ON : PT PUMP mount	Actuator types OFF : External or Internal mount · ON : PT PUMP mount
	SW2	ON 1200 – 2500 Hz	ON 1200 – 2500 Hz	ON 1200 – 2500 Hz	ON 1200 – 2500 Hz	Ramp time OFF : 10 seconds ramp time · ON : Immediate start	Ramp time OFF : 10 seconds ramp time · ON : Immediate start
	SW3	ON 2500 – 5000 Hz	ON 2500 – 5000 Hz	ON 2500 – 5000 Hz	ON 2500 – 5000 Hz	Frequency OFF : 60 Hz · ON : 50 Hz	Frequency OFF : 60 Hz · ON : 50 Hz
	SW4	ON 5000 – 9500 Hz	ON 5000 – 9500 Hz	ON 5000 – 9500 Hz	ON 5000 – 9500 Hz	N/A	N/A
	SW5	ON Cummins PT PUMP	ON Cummins PT PUMP	ON Cummins PT PUMP	ON Cummins PT PUMP	N/A	N/A
	SW6	ON Extreme slow response engine	ON Extreme slow response engine	ON Extreme slow response engine	N/A	N/A	N/A
Dimension		147.0 (L) x 114.0 (W) x 50.0 (H) mm	147.0 (L) x 114.0 (W) x 50.0 (H) mm	147.0 (L) x 114.0 (W) x 50.0 (H) mm	147.0 (L) x 114.0 (W) x 50.0 (H) mm	162.0 (L) x 112.0 (W) x 43.0 (H) mm	162.0 (L) x 112.0 (W) x 43.0 (H) mm
Diagram and Dimensions							
Weight		690 g +/-2%	690 g +/-2%	690 g +/-2%	690 g +/- 2%	330 g +/-2%	330 g +/-2%