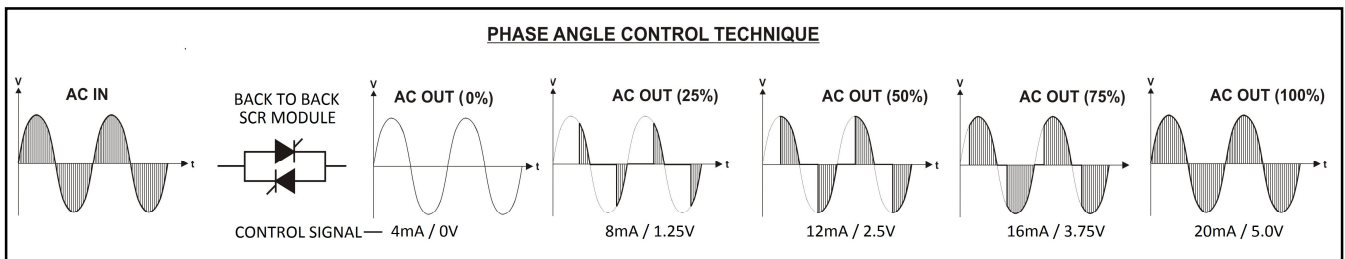
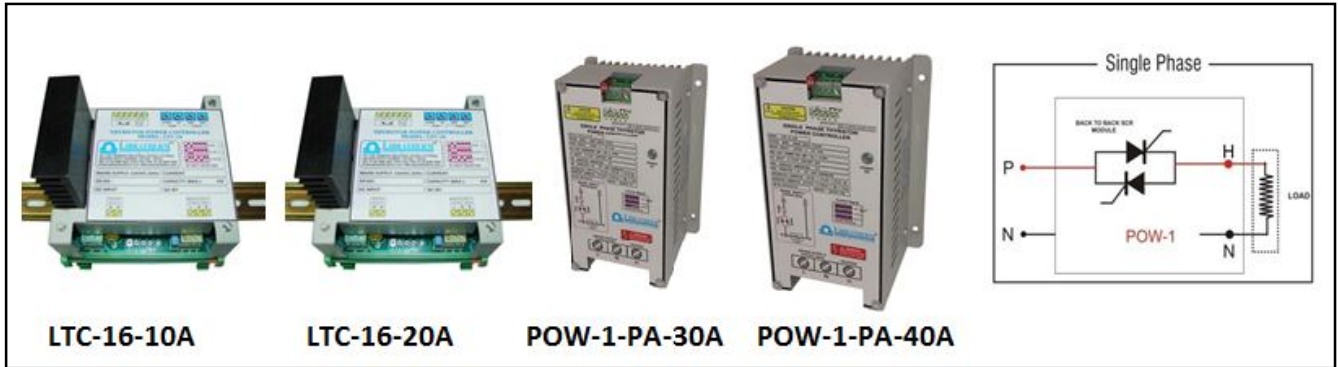


Single Phase (2 to 8KW) SCR Power Regulator for Heater Load



Model Wise Description:

Model	Product Description	Size (HxWxD) mm.
LTC-16-10A	Single Phase SCR power regulator for 2KW @ 230VAC heater load	120 x 120 x 120
LTC-16-20A	Single Phase SCR power regulator for 4KW @ 230VAC heater load	120 x 120 x 120
POW-1-PA-30A	Single Phase SCR power regulator for 6KW @ 230VAC heater load	190 x 115 x 100
POW-1-PA-40A	Single Phase SCR power regulator for 8KW @ 230VAC heater load	190 x 135 x 115

Features:

- Solid state, field proven, rugged and reliable design.
- DIN rail mount or base mount
- User selectable control signal
- Gradual, smooth and step less control of power across the heater

Description:

Libratherm offers Single phase power regulator for Heating control of resistive or inductive loads. This regulator accepts the user selectable control signal of 0-5V, 0-10V and 4-20mA or through potentiometer, and hence, can be easily interfaced with DDC, PID, PLC or HMI. The output voltage can be varied proportional to the input signal. The phase angle firing control technique ensures smooth and gradual step less voltage control across the heater load. Facility is also provided to adjust the soft rise or fall in voltage across the load using on card Ramp UP and Ramp Down potentiometers. The maximum and minimum voltage output can also be adjusted. These modules can be easily mounted on the standard 35 mm. DIN rail or on the base plate using 4 screws. For three phase load in star with neutral configurations, 3 independent modules can be used with common control signal.

Partners In Measurement And Control (DOC:120916)

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Technical Specifications:

Item	Single Phase SCR based power regulator
Models	LTC-16-10A, LTC-16-20A, POW-1-PA-30A, POW-1-PA-40A
Control Signal Input (Linear)	0-5V, 0-10V, 4-20mA (DIP switch selectable) or using external 10K potentiometer.
Control Technique	Phase angle control (Self Synchronized).
Supply Voltage	115VAC or 230VAC +/- 10% @ 50/60Hz (User to specify)
Output Voltage (Single phase Load)	Variable 0 to 115 / 0 to 230VAC with respect to neutral and proportional to control signal. (depends on line voltage w.r.t. neutral)
Max. Load Current	Max. 10A for LTC-16-10 Max. 20A for LTC-16-20 Max. 30A for POW-1-PA-30 Max. 40A for POW-1-PA-40
Ramp Up/Down and Max./Min Power	Adjustable using on card single turn presets.
Enable/Disable input	External potential free contact for remote on/off operation.
Mounting	35 mm. DIN rail or base plate mounting
Connections	Separate terminals for Auxiliary Supply, Heaters and Control Signal.
Sizes (H x W x D)	120 x 120 x 120 mm. (LTC-16-10) and (LTC-16-20) --- DIN RAIL mount. 190 x 115 x 100 mm (POW-1-PA-30) – Base plate mount. 190 x 135 x 115 mm (POW-1-PA-40) – Base plate mount.

Specifications are subject to change due to continuous Product up gradation.

Ordering Information:

MODEL	A- INPUT CONTROL SIGNAL	B- CONFIGURATION	C- SUPPLY
LTC-16-10A	A1- (0-5 VDC) fixed	B1- Single Phase with Neutral	C1- 230VAC C2- 115VAC
LTC-16-20A	A2- (0-10 VDC) fixed		
POW-1-PA-30A	A3- (4-20 mA) fixed		
POW-1-PA-40A	A4- All DIP switch selectable		

Examples:

MODEL	A- INPUT CONTROL SIGNAL	B- CONFIGURATION	C- SUPPLY
LTC-16-20	A3	B1	C1
POW-1-PA-40A	A4	B1	C2

Example	Ordering Code	Description
1	LTC-16-20-A3-B1-C1	This is single phase AC power regulator with 4-20mA control signal for single phase 4KW load working on 230VAC
2	POW-1-PA-40-A4-B1-C2	This is single phase AC power regulator with user selectable control signal for single phase 8KW load working on 115VAC

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