

PC537 3-Phase Phase Angle Power Controller

Features

- * Specially designed for short wave infra-red lamp control & transformer coupled loads
- * Soft start to eliminate inrush current
- * Up to 600V supply and 500A output current
- * Auto adjust for 50Hz or 60Hz supply
- * Low cost, compact package to save space
- * High speed fuse fitted as standard, isolated heatsink
- * Optional current or voltage limit
- * Adjustable zero and span adjust
- * Voltage or mA input, user selectable



Description

The PC537 single phase Phase Angle Controller is designed for controlling loads having high inrush current, such as short wave infra-red lamps, transformer coupled loads, tungsten lamps or inductive loads with a load configuration as a **4 wire star** or **6 wire delta** load. For 3-wire star or delta load control, please refer to our PC335 Power Controller.

The PC537 ramps up or down the output current or voltage gradually to eliminate starting inrush current. A special circuit inhibits any load current during power on. If the supply is unstable, the output is inhibited to avoid damage to the load. High speed fuses are fitted to protect switching devices from short circuits.

The PC537 is compact, robust and built to a high specification. The PC537 is also designed to meet European standards.

Specification

Supply voltage	+/-10% of specified value
Supply freq.	47Hz to 63Hz
Input signal	0-5V, 0-10V & 4-20mA User selectable
Current ratings	15A to 500A as standard >500A on request
Adjustable ramp Period	UP – 1 to 30 sec. Down – 0.5 to 30 sec.

Operating temp.	0-50 deg. C
Storage temp.	-10 to 80 deg. C

Dimension

15A & 25A	W: 300mm, H: 250mm, D: 120mm
40A & 55A	W: 300mm, H: 250mm, D: 180mm
75A	W: 300mm, H: 300mm, D: 180mm
100A	W: 300mm, H: 350mm, D: 180mm
150 to 300A	W: 420mm, H: 385mm, D: 255mm
400 to 600A	W: 520mm, H: 610mm, D: 320mm

Order Code **PC537 – INPUT – SUPPLY - OUTPUT CURRENT – OPTIONS – 00**

<u>INPUT</u>	<u>CODE</u>	<u>SUPPLY VOLTAGE ***</u>	<u>CODE</u>	<u>O/P CURRENT</u>	<u>CODE</u>
0-5V	11	110V	10	15A	15
0-10V	12	220V	22	25A	25
4-20mA	20	240V	24	40A	40
Logic dc	30	380V	38	55A	55
		415V	41	75A	75
		440V	44	100A	100
		480V	48	150A	150
<u>OPTIONS</u>	<u>CODE</u>	500V	50	200A	200
O/P VOLTAGE	49	600V	60	250A	250
LIMIT 20-100%				300A	300
CURRENT LIMIT				400A	400
20-100%	50			500A	500

*** For a 4 wire star load, the supply voltage is the voltage between the line and neutral voltage.
For a 6 wire open delta load, the supply voltage is the voltage between line and line voltage.