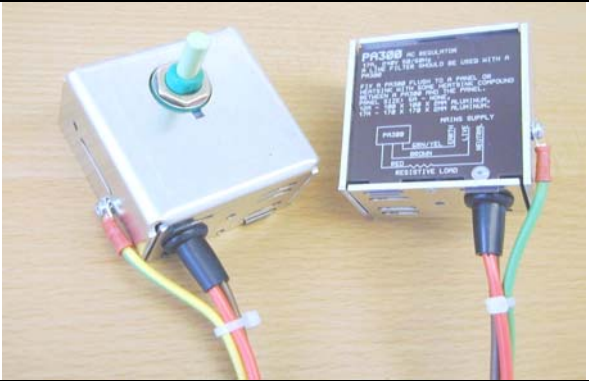


PA300 Manual Control Power Controller with ON/OFF Switch

<p>Features</p> <ul style="list-style-type: none"> ❖ Suitable for up to 4KW heater at 240V ❖ Integral ON/OFF switch ❖ High reliability snubberless triac used ❖ Low cost & compact 	
<p>Applications</p> <ul style="list-style-type: none"> ❖ Short wave infra-red lamps ❖ Fan brown heater elements ❖ Lighting 	<p>Dimensions</p> <p>H = 55mm, W = 55mm, D = 33mm. Shaft dia = 6.3mm. Shaft protrusion from panel = 20mm. Panel thickness = 2.5mm max. Fixing hole dia = 10mm. Cable length = 430mm min.</p>

The PA300 manual control phase angle energy regulator is a compact, low cost unit for controlling the power into resistive loads from 0 to 99%. To reduce stress and increase reliability it uses a most advanced 25A, high surge rating triac.

The controller is enclosed with integral heatsink and includes potentiometer and ON/OFF switch for manually controlling the load power. In order to have the maximum control power, a PA300 must be mounted onto a steel or aluminum panel for dissipating the heat generated by the controller.

The unit metal fascia temperature must not exceed 70 Deg. C.

Notes.

- This product is offered for use to professional installers and the product is to be installed by suitably qualified personnel in accordance with current industrial electrical/mechanical safety and EMC standards.
- Installation to be in accordance with the current edition of IEE wiring regulations BS7671: 2001, 16th edition.
- This product is deemed a component only for professional assemblers for incorporation in to apparatus and systems or installations for which its own EMC and safety standards will apply and for which Powerlink is not responsible.
- For further information see the Product Manual.

<p><u>Ratings.</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Pmax</u></th> <th style="text-align: left;"><u>I_{max}</u></th> <th style="text-align: left;"><u>Panel size</u></th> </tr> </thead> <tbody> <tr> <td>1.4kW</td> <td>5A</td> <td>none</td> </tr> <tr> <td>2.8kW</td> <td>12A</td> <td>2 X 100 X 100 mm</td> </tr> <tr> <td>4kW</td> <td>17A</td> <td>2 X 170 X 170 mm</td> </tr> </tbody> </table> <p>Note: heatsink compound must be applied between a PA300 metal fascia and the panel in order to meet the specified current ratings.</p>			<u>Pmax</u>	<u>I_{max}</u>	<u>Panel size</u>	1.4kW	5A	none	2.8kW	12A	2 X 100 X 100 mm	4kW	17A	2 X 170 X 170 mm	<p><u>Specification</u></p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Supply voltage</td> <td>240V ac, 50 or 60Hz</td> </tr> <tr> <td>Max. current rating</td> <td>17A @70°C, with correct panel size</td> </tr> <tr> <td>Max triac rms current</td> <td>25A</td> </tr> <tr> <td>Peak surge current</td> <td>262A</td> </tr> <tr> <td>Min. holding load current</td> <td>30mA current</td> </tr> <tr> <td>Repetitive peak voltage</td> <td>600V</td> </tr> <tr> <td>Hysteresis</td> <td>5% typical</td> </tr> <tr> <td>Total conduction phase angle</td> <td>0 to 160 degree</td> </tr> <tr> <td>Controlled conduction phase angle</td> <td>30 to 160 degree</td> </tr> </tbody> </table>	Supply voltage	240V ac, 50 or 60Hz	Max. current rating	17A @70°C, with correct panel size	Max triac rms current	25A	Peak surge current	262A	Min. holding load current	30mA current	Repetitive peak voltage	600V	Hysteresis	5% typical	Total conduction phase angle	0 to 160 degree	Controlled conduction phase angle	30 to 160 degree
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Powerlink Electronics Ltd.

Powerlink House, Ivy Arch Road, Worthing, W Sussex, BN14 8BX
 Tel: 01903 209550 Fax: 01903 213526