

Please use this Document To Identify Models by Their Old Part Number Reference

RS Stock Numbers

OLD MODEL NUMBERS

Supplier:	RS Components Ltd, Birchington Road, Corby, Northants, NN17 9RS.
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HP Series of PTC Heaters

Safe Self regulating temperature output

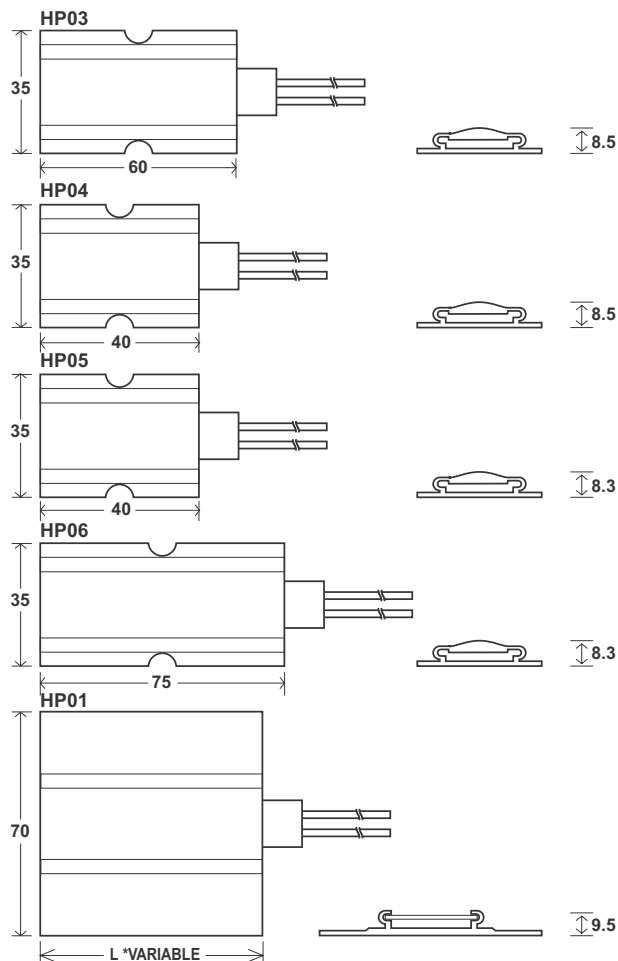
Ac/Dc working (100 - 240v or 12 - 24v)

Choice of operating temperature (40°C - 290°C)



www.ptcheaters.com

DIMENSIONS



The DBK HP range of Positive Temperature Coefficient (PTC) self regulating heaters have been designed to offer a wide choice of power outputs within a compact series of aluminium profiles. These elements can be operated without the aid of a thermostat or thermal cut-out.

Operating voltages available are 100-240vac/dc or 10-30vac/dc (uni-voltage input). 600mm wire tail versions are available on request.

DESIGN NOTES

$$\text{Power} = K \times A \times T$$

K: Heat transmission factor, sheet steel 5.5W/m² Kelvin (contact OEM for non steel values).

A: Complete surface area of heat losing enclosure (m²).

T: Temperature difference between the ambient air temperature and the specified air temperature of the enclosure.
When considering cabinet heating, place the elements within the lowest part of the enclosure to aid natural convection of the thermal energy.

Assisted forced air convection enhances the power output, thus decreasing the temperature of the element.

APPLICATIONS

Electrical Switchgear Cabinets
CCTV Camera Housing
Telecommunication Cabins
Refrigeration Drip Tray Heating
Street Cabinets
Laboratory Equipment

SPECIFICATION

UL, CSA, VDE

0.5mm² black silicon VDE approved wire

100-240vac/dc, 10-30vac/dc, 30-60vac/dc

IP54 on request

Protection class II

Custom models considered

MODELS MAXIMUM OUTPUT MODELS MAXIMUM OUTPUT

HP03-1/04-24	15W	HP05-1/12-24	55W
HP03-1/05-240	15W	HP05-1/13-24	58W
HP03-1/07-240	20W	HP05-1/14-24	60W
HP03-1/08-24	30W	HP05-1/14-48	60W
HP03-1/09-240	25W	HP05-1/15-240	58W
HP03-1/11-240	30W	HP05-1/20-240	60W
HP04-1/04-24	10W	HP05-1/22-24	70W
HP04-1/05-240	10W	HP06-2/04-24	18W
HP04-1/07-240	15W	HP06-2/05-24	20W
HP04-1/08-24	15W	HP06-2/05-240	20W
HP04-1/09-240	18W	HP06-2/05-48	20W
HP04-1/11-240	20W	HP06-2/07-240	50W
HP04-1/13-240	22W	HP06-2/09-240	70W
HP04-1/18-240	32W	HP06-2/10-24	80W
HP05-1/04-24	20W	HP06-2/11-240	110W
HP05-1/05-24	22W	HP06-2/13-240	145W
HP05-1/05-240	20W	HP06-2/15-240	160W
HP05-1/07-240	25W	HP06-2/18-240	180W
HP05-1/09-240	30W	HP06-2/20-240	200W
HP05-1/10-24	50W	HP06-2/22-24	200W
HP05-1/11-240	35W	HP06-2/24-240	225W

* HP01-2/15-240R1 (250mm Length, L) 140W

* HP01-2/15-240R2 (400mm Length, L) 160W

* HP01-2/15-240R3 (70mm Length, L) 100W

* HP01-4/15-240R1 (250mm Length, L) 280W

* HP01-4/15-240R2 (400mm Length, L) 320W

Note: -24 represents 12-30v operating voltage

-48 represents 30-60v operating voltage

-240 represents 100-240v operating voltage

STANDARD LEAD LENGTH 100mm



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