



## *HP Series of PTC Heaters*

Safe Self regulating temperature output

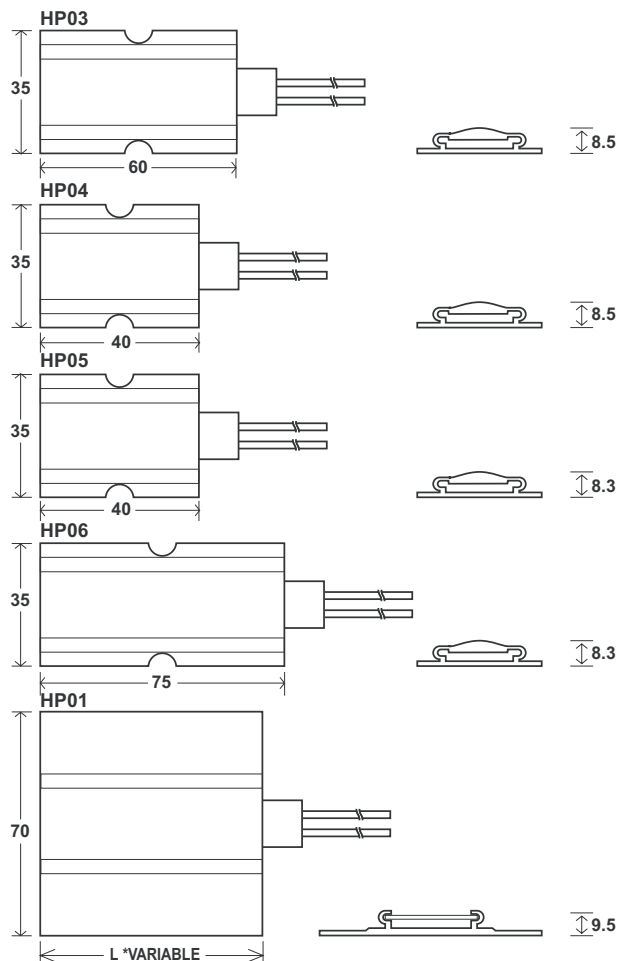
Ac/Dc working (100 - 240v or 12 - 24v)

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



[www.ptcheaters.com](http://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/m<sup>2</sup> Kelvin (contact OEM for non steel values).

A: Complete surface area of heat losing enclosure (m<sup>2</sup>).

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

0.5mm<sup>2</sup> 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



**European Thermodynamics Limited**  
Intelligent Thermal Management

PO Box 6744  
Leicester LE2 6WS, United Kingdom

Tel: +44 (0)116 292 1501  
Fax: +44 (0)116 292 1503  
info@etdyn.com  
www.etdyn.com

Business registration 4345086 VAT registration 787 3265 86