

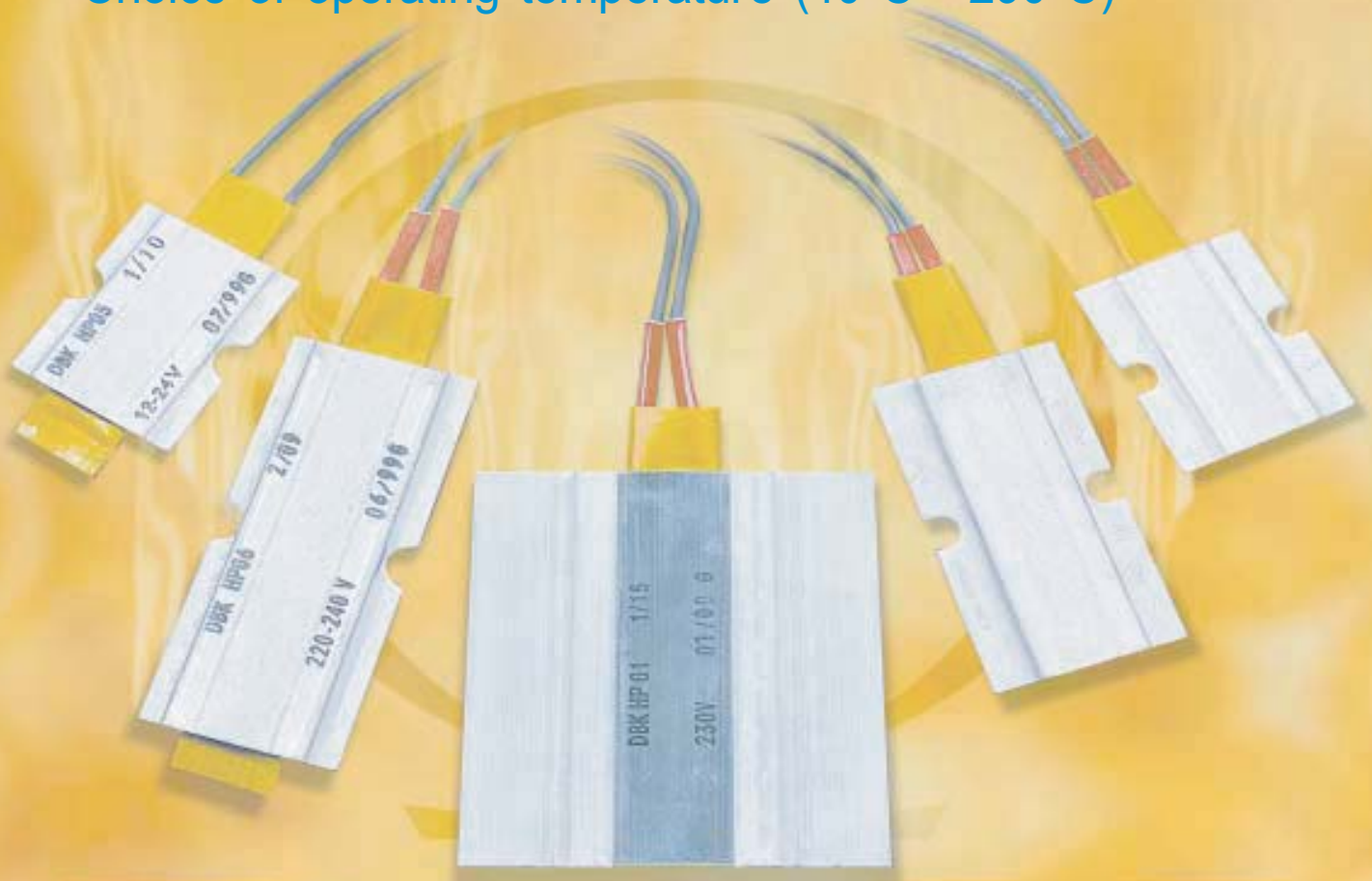
**Ω DBK**

## *HP Series of PTC Heaters*

Safe Self regulating temperature output

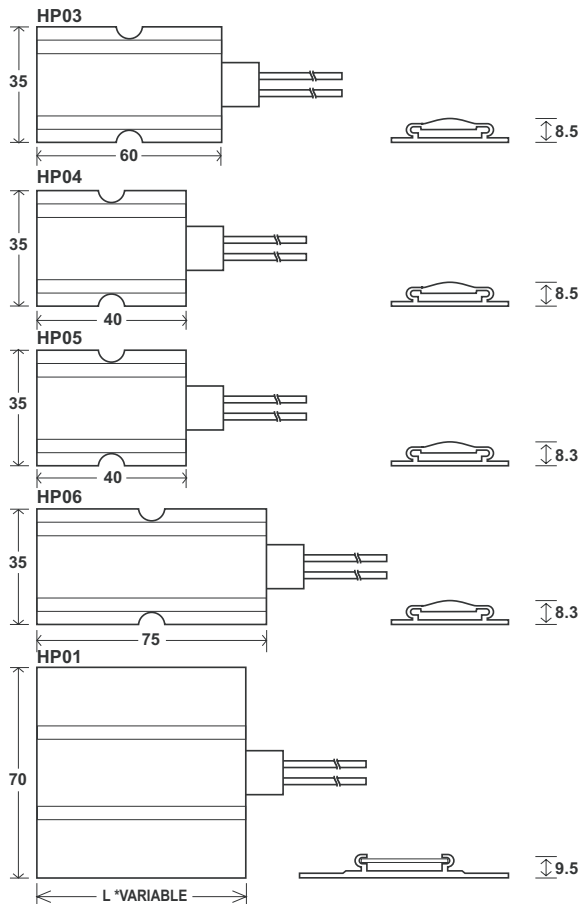
Ac/Dc working (100 - 240v or 12 - 24v)

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



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