PTC HEATER

STANDARD FEATURES

Compact heater in PTC technology
- Maintains minimum operating temperatures in enclosures
- Helps to prevent failure of electronic components caused by condensation and corrosion

Heating power adjusts to ambient temperature
Push connectors for quick and easy wiring
DIN rail mountable
CUR/US, CE

Model Number 120-240VAC	Power*	Rated Current	Max. Current**	Length (L)	Weight
KSEH15	15W	0.08A	1.5A	2.6”/65 mm	0.66 lbs (0.3 kg)
KSEH30	30W	0.15A	3.0A	2.6”/65 mm	0.66 lbs (0.3 kg)
KSEH45	45W	0.23A	3.5A	2.6”/65 mm	0.66 lbs (0.3 kg)
KSEH60	60W	0.30A	2.5A	5.5”/140 mm	1.10 lbs (0.5 kg)
KSEH75	75W	0.38A	4.0A	5.5”/140 mm	1.10 lbs (0.5 kg)
KSEH100	100W	0.50A	4.5A	5.5”/140 mm	1.10 lbs (0.5 kg)
KSEH150	150W	0.75A	9.0A	8.7”/220 mm	1.76 lbs (0.8 kg)

12-36VDC	Power*	Rated Current	Max. Current**	Length (L)	Weight
K7SEH15	15W	0.63A	9A	2.6”/65 mm	0.66 lbs (0.3 kg)▼
K7SEH30	30W	1.25A	14A	2.6”/65 mm	0.66 lbs (0.3 kg)▼
K7SEH45	45W	1.88A	8A	2.6”/65 mm	0.66 lbs (0.3 kg)▼
K7SEH60	60W	2.50A	10A	5.5”/140 mm	0.88 lbs (0.4 kg)▼
K7SEH75	75W	3.13A	14A	5.5”/140 mm	1.10 lbs (0.5 kg)▼
K7SEH100	100W	4.17A	16A	5.5”/140 mm	1.10 lbs (0.5 kg)▼
K7SEH150	150W	6.25A	23A	8.7”/220 mm	1.65 lbs (.75 kg)▼

* At 68ºF (20ºC) ambient temperature
** Inrush current
▼ Not CUR-US or VDE Approved

Find additional information on this model at kooltronic.com, or use the Technical Documents QR code below.

Technical Documents

TECHNICAL DATA

Operating voltage:	AC: 120 - 240V / DC: 12 - 36VDC (other voltages also available)
Heating element:	PTC resistor, self-regulating
Heating body:	Anodized extruded aluminum
Protection class:	I, test voltage 1600 V
Protection type:	IP 20
Connection:	Push-type terminals for stranded and solid wire 3 x AWG 20-16 (0.5-1.5 mm²)
Mounting:	Clip for 35 mm DIN rail (EN 50022)

Determining the required heater size:

$$P_H = (A \times \Delta T \times k) - P_V$$

P_H = Required heating power for your application in Watts (W)

P_V = Heating power generated by existing components (e.g. a transformer) in Watts (W)

A = Exposed enclosure surface area in square meters (m²)

ΔT = Temperature differential between the desired minimum interior temperature and the lowest possible external temperature of the enclosure in Kelvin (K), 1.8ºF = 1ºC = 1K

k = Heat transmission coefficient of the enclosure material used:

Painted steel:	5.5W/m²K
Stainless steel:	3.7W/m²K
Aluminum:	12W/m²K
Polyester/Plastic:	3.5W/m²K

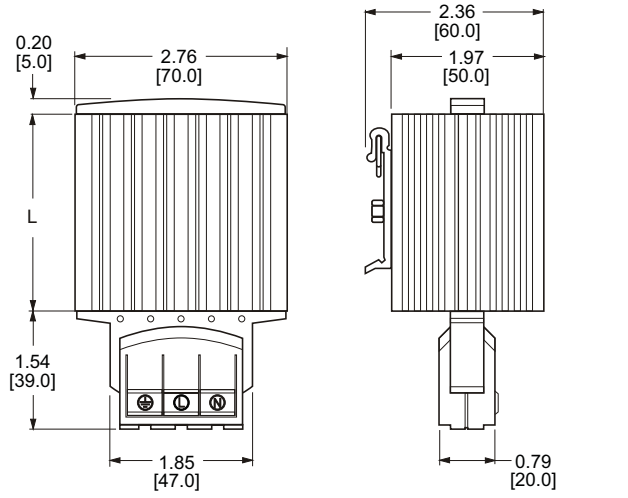
For outdoor applications it is recommended to double the heating power.

HOW TO ORDER

Specify model number.

DRAWINGS

Dimensions, inches [mm], are for reference only and are subject to change.



Applications:
Electrical & Electronic enclosures
Telecommunications systems
Display panels
Automatic teller machines (ATM’s)
Access & Parking control systems
Ticket dispensers

Kooltronic, Inc., 30 Pennington-Hopewell Road, P.O. Box 240, Pennington, NJ 08534-0240
Tel: (609) 466-3400 Fax: (609) 466-1114 kooltronic.com sales@kooltronic.com