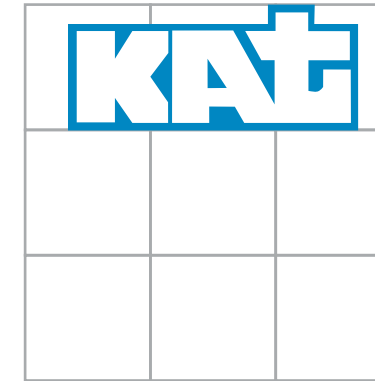




### Technical specifications

Input A.C. Supply	1 Ph / 2 Ph / 3 Ph 230/415 V.A.C, $\pm 10\%$ 50/60 Hz $\pm 2$ Hz
Output Voltage	0-98% of Input voltage
Feedback	Built in voltage and current feedback
Control Input signal	0 to 10V Through 5K or 10K Potentiometer or 4-20 mA from PID /Temp controller
Regulation	2.5 %
Protection	dv/dt protection by RC snubber, Current limit and over current tripping
Adjustments	Current limit, Over current trip, Set output volts, Max. power, Stability, Voltage ramp up, Voltage ramp down
LED Indication	$\pm 15$ V Healthy, Current limit, Over current trip, Controller enabled
Loading Condition	125% for 10 Sec., 110% for 2 Hours and 100% continues. Other loading conditions can be given on request
Environmental conditions	
1. Ambient Temperature	1. 45 ° C max
2. Humidity	2. 95% max (non condensing)
3. Altitude	3. 1000 Mtrs max. above MSL
Constructions	Open execution module suitable for mounting inside the panel



## Heater Controller

Kat offers compact, rugged and economical heater controllers for industrial requirements.

Quality, repeatability and high availability form the basis of quality of end product. Thyristorised heater controllers from KAT switch, control and regulate electrical energy and offer optimal performance even for complex applications.

Kat heater controllers are available in 1 phase, 2 phase and 3 phase input with either phase angle or integral cycle control. They precisely and reliably control melting, heating, drying or forming process.



### Applications :

- ◆ Oven equipment (industrial, diffusion and drying ovens)
- ◆ Glass processing (float glass, feeder, finishing)
- ◆ Plant equipment (extruders, plastic presses)
- ◆ Chemical industry  
(pipe trace heating, preheat equipment)
- ◆ Automotive industry (paint drying equipment, forging)
- ◆ Printing machines (IR dryers)
- ◆ Packaging industry (shrink tunnels)
- ◆ Steel industry (precoated sheets)

In keeping with our constant endeavour to meet market needs, we reserve the right to alter or change the specifications mentioned without prior notice



**KAT CONTROLS PVT. LTD.**

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Phone : +91 98812 32124  
E-Mail : info@katcontrols.com  
Website : www.katcontrols.com





**Standard Features :**

- Fully solid state power control
- Voltage and current feedback to control the temperature accurately
- **Fault status indications by LED's**
- Built in test points for maintenance
- Control through external process. Variable signal like 4 to 20 mA / 0 -10VDC
- Fault trip (over load ) potential free contact
- dv / dt protection for thyristor
- ' Heatsink temperature high ' signal

**Optional Features :**

- Fast acting semiconductor fuses for thyristor protection
- Panel enclosure with necessary protection, switchgear, indications, controls and PID. Internally wired to the components & terminal blocks with proper identifications
- Earth fault protection kit
- Fuse fail trip
- Multi heater controller systems and settings through Modbus
- AC line chokes
- Fault annunciation kit
- Remote control desk and pendants



**Katcon make Heater Controller Modules**

1) KATCON PC 1 series Model : 1P-12, 1P- 30 (Phase angle controlled)	1Ph / 2Ph, 12Amp 30 Amp
2) KATCON IC 1 Series Model : I-15, I-40, I-80, I-100 (Integral cycle controlled)	1 Phase / 2 Phase 15 Amp, 40 Amp, 80Amp, 100Amp, 130Amp
3) KATCON PC 3 Series Model : 3P-15, 3P-40, 3P-80, 3P-100, 3P-130 (Phase angle controlled)	3 Phase 15Amp, 40 Amp, 80 Amp, 100 Amp, 130 Amp
4) KATCON 3I Series Model : 3I-25, 3I-50, 3I-100, 3I-130 (Integral cycle controlled)	3 Phase 25Amp, 50Amp, 100Amp, 130Amp
5) KATCON HP Series (Phase angle controlled)	3 Phase, onwards 130A to 800Amps
6) KATCON HI Series (Integral cycle)	3 Phase, onwards 130A to 800Amps

Note : Higher rating controllers can be manufactured on request

