

# AC-DC ITE Power Module

20 Watt

## eATC30 Series



- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-305 VAC, 47-63 Hz
- ◆ Low Standby < 0.3W
- ◆ Very Small 2.52" x 1.77" x 0.92" Package
- ◆ Isolation Class II
- ◆ CE, CB, UL Approvals
- ◆ 3-Year Warranty

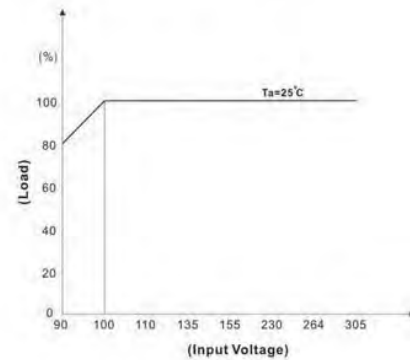
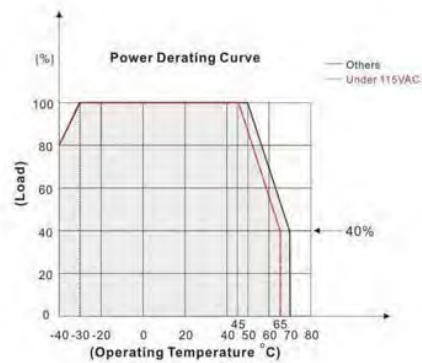
Input Specifications	
Voltage Range	90 ~ 305 VAC or 100 ~430 VDC
Frequency	47~63 Hz
Output Specifications	
Output Power	30 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin)
Minimum Load	0% (at Full Load)
Line Regulation	±0.5% (LL to HL at Full Load) (typ.)
Load Regulation	3S: ±1.5% (typ.) 0% to 100% at Full Load) others: ± 1% (Vp-p) (max.)
Ripple & Noise (20MHz bandwidth)	3.3S,5S: 100mV (Vp-p) (max.) 12S,15S: 150mV (Vp-p) (max.) 24S: 240mV
Temperature Coefficient	±0.02% °C (max.)
Short Circuit Protection	Hiccup mode, indefinite (Automatic recovery)
General Specifications	
Efficiency (see table list)	80% to 89% (typ.)
Isolation Voltage	3000 VAC (min.)
Isolation Resistance	10 <sup>8</sup> Ω (Input to Output) (min.)
Operating Temperature	25 °C to + 70°C (with Derating)
Storage Temperature	-40 °C to +85°C
Humidity	95% RH (max.)
Cooling	Free-air Convection
Physical Specifications	
Dimension	64.0 x 45.0 x 23.5 mm
(Tolerance ±0.5 mm)	2.52 x 1.77 x 0.92 inches
Weight	130 g
Case Material	Plastic resin (flammability to UL 94V-0)

### Model

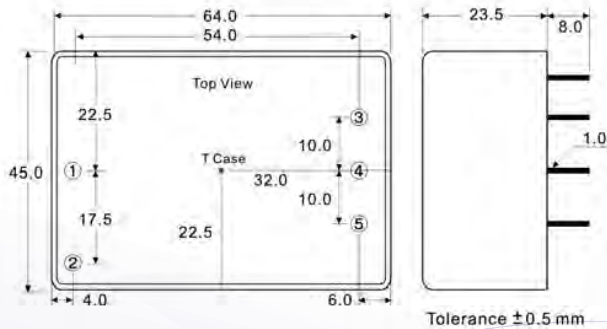
#### ► eATC30 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eATC30-3.3S	90~264	3.3	5000	80
eATC30-5S	90~264	5	5000	84
eATC30-12S	90~264	12	2500	89
eATC30-15S	90~264	15	2000	86
eATC30-24S	90~264	24	1250	86

### Derating



### Outline Dimensions & Pin Connections



Pin #	Single
1	AC IN (N)
2	AC IN (L)
3	- DC OUT
4	NO PIN
5	+DC OUT