

# 30 Watts

**Total Power:** 30W  
**Input Voltages:** 1.8V - 13V  
**No. of Outputs:** Single

## APC08 (8 Amp)



### Electrical Specs

#### Input

Input range	1.8-6.0VDC and 5.0-13.0VDC
Input Surge	08 Device: 14V 03 Device: 7V
Efficiency	93%@3.3V

#### Control

Enable	TTL compatible (positive enable option)
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#### Output

Regulation (Line, Load, Temp)	<3%
Ripple and noise	100mV (5V and 6V) 75mV (2.5V and 3.3V) 50mV (below 2.5V)
Output voltage adjust range	08 Device: 0.9V to 6.2V 03 Device: 0.9V to 3.6V
Transient Response	5% max deviation with 50% to 75% full load 500 $\mu$ S (max) recovery

Specifications subject to change without notice.

### Special Features

- Point of load (POL) applications
- High efficiency, 3.3V@93%
- -40°C to +85°C Ambient operating temperature
- Open Frame SMT
- Positive enable function
- Low output ripple and noise
- Regulation to zero load
- Adjustable Output through external resistor programming
- Fixed frequency switching (400 kHz)

### Environmental

Operating temperature  
-40°C to +85°C  
 Storage temperature: -55°C to +125°C  
 Demonstrated MTBF: > 2.3 Million Hours

### Safety

**UL, cUL** 60950 Recognized  
**TUV** EN60950 Licensed

## Ordering Information

Input Voltage	Output Voltage	Efficiency Full Load	Model Number
1.8V-6.0V	0.9V @ 8A	76% (Typ)*	APC08J03
1.8V-6.0V	1.2V @ 8A	81% (Typ)	APC08K03
1.8V-6.0V	1.5V @ 8A	86% (Typ)	APC08M03
2.2V-6.0V	1.8V @ 8A	88% (Typ)	APC08Y03
3.0V-6.0V	2.5V @ 8A	91% (Typ)	APC08G03
4.0V-6.0V	3.3V @ 8A	93% (Typ)	APC08F03
5.0V-13.0V	0.9V @ 8A	75% (Typ)	APC08J08
5.0V-13.0V	1.2V @ 8A	81% (Typ)	APC08K08
5.0V-13.0V	1.5V @ 8A	84% (Typ)	APC08M08
5.0V-13.0V	1.8V @ 8A	86% (Typ)	APC08Y08
5.0V-13.0V	2.5V @ 8A	90% (Typ)	APC08G08
5.0V-13.0V	3.3V @ 8A	92% (Typ)	APC08F08

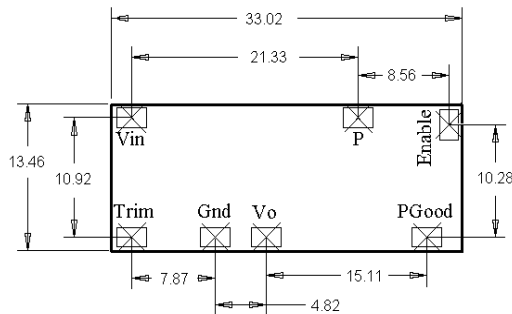
\* Typical Efficiency is measured at full load, mid range input and at  $T_A=25^\circ\text{C}$

Options: suffix “-9” = Output Trim option

suffix “-9MA” = Output Trim with Ishare and PGood options

suffix “-J” = Jedec Style Tray Packaging (Default packaging is T&R with no “-J” suffix required)

## Mechanical Dimensions



### Optional Pins:

PGood - Power Good Logic Signal

P - Active Current Share Pin

Trim - Trim Pin

### Note:

1. Specifications given are typical values at nominal conditions.
2. The Technical Reference Notes should be consulted for detailed information.
3. Specifications subject to change without notice. Mechanical drawings are for reference only

### Tolerances:

x.xx +/- 0.02 in (x.x +/- 0.5mm)

x.xxx +/- 0.010 in (x.xx +/- 0.25mm)

