

25 Watts APC08

High Efficiency

PRELIMINARY



Total Power: 25 Watts
Input Voltages: 1.8 to 13 V
No. of Outputs: Single

Electrical Specs

Input

Input range	1.8-6.0VDC and 5.0-13.0VDC
Input Surge	13V
Efficiency	90%@3.3V

Control

Enable	TTL compatible (positive enable option)
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Output

Regulation (Line, Load, Temp)	<3%
Ripple and noise	75mV - (>2.5V Output) 50mV - (<2.5V Output)
Output voltage adjust range	.9V to 3.6V
Transient Response	5% max deviation with 50% to 75% full load 500 μ S (max) recovery

Specifications subject to change without notice.

Special Features

- Point of load (POL) applications
- High efficiency, 3.3V@90%
- -40°C to +85°C Ambient operating temperature
- Open Frame SMT
- Positive enable function
- Low output ripple and noise
- Regulation to zero load
- Programmable Output from .9V to 3.6V (External Trim Resistor)
- Fixed frequency switching (400 kHz)

Environmental

Operating temperature
-40°C to +85°C
Storage temperature: -55°C to +105°C
MTBF: >1 million hours

Safety

UL, cUL 1950 Recognized
TUV EN60950 Licensed

AMERICAS

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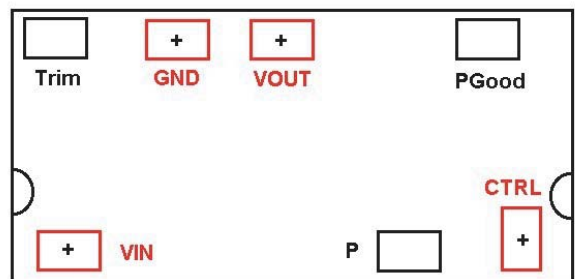
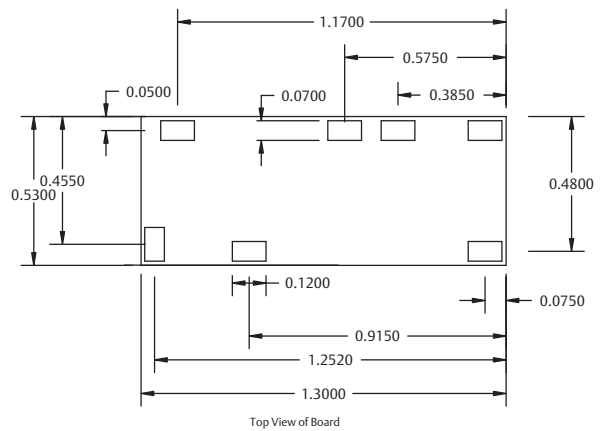
Ordering Information

Input Voltage	Output Voltage	Efficiency Full Load	Model Number	Availability
1.8V-6.0V	0.9V @ 8A	70% (Typ)	APC08J03	Samples Available
1.8V-6.0V	1.2V @ 8A	80% (Typ)	APC08K03	Samples Available
1.8V-6.0V	1.5V @ 8A	81% (Typ)	APC08M03	Samples Available
1.8V-6.0V	1.8V @ 8A	82% (Typ)	APC08Y03	Samples Available
1.8V-6.0V	2.5V @ 8A	86% (Typ)	APC08G03	Samples Available
1.8V-6.0V	3.3V @ 8A	89% (Typ)	APC08F03	Samples Available
5.0V-13.0V	0.9V @ 8A	70% (Typ)	APC08J08	Samples Available
5.0V-13.0V	1.2V @ 8A	80% (Typ)	APC08K08	Samples Available
5.0V-13.0V	1.5V @ 8A	81% (Typ)	APC08M08	Samples Available
5.0V-13.0V	1.8V @ 8A	82% (Typ)	APC08Y08	Samples Available
5.0V-13.0V	2.5V @ 8A	86% (Typ)	APC08G08	Samples Available
5.0V-13.0V	3.3V @ 8A	89% (Typ)	APC08F08	Samples Available

Note: Efficiency is measured at full load and Tc=25 Deg C
 “Trim, PGood, Parallel Options available on all modules
 (trim = -9)
 (Active share & P Good = MA)

Notes:

- 20 mHz bandwidth. External 10 uF tant. capacitor + 0.1 uF cer. capacitor placed from +V out to -V out.
- Meet FCC class A and ETS300-386-1 requirements for conducted noise. Consult Factory for filtering information to meet FCC class B, VDE or EIC specifications.
- All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are for reference only.
- Technical Reference Notes should be consulted for detailed information when available.
- Warranty: 1yr



Tolerances:
 x.xx +/- 0.02 in (x.x +/- 0.5mm)
 x.xxx +/- 0.010 in (x.xx +/- 0.25mm)

Optional Pins (Dimensions TBD)

PGood - Power Good Logic Signal
 P - Active Current Share Pin
 Trim - Trim Pin (.9 to 3.6V)