

AA60A

60 Watts



AA60A Series - Wide Input - Dual Output

Total Power	60 Watts
Input Voltages	24V TO 48V
# of Outputs	Dual 5V/3.3V & 3.3V/2.5V



SPECIAL FEATURES

- Output loadsharing
- 24V and 48V DC Input
- Unencapsulated 2.3" x 2.4" x 0.50" pkg.
- 100°C baseplate temperature
- Trim feature, both rails
- Industry standard pin-out
- Enable (on/off)
- Thermal protection

ENVIRONMENTAL

Operating case temperature range:
-40°C to +105°C

Storage temperature: -40°C to +105°C

Humidity: 5% to 100% (non-condensing)

SAFETY

UL UL 1950
CAN22.2-950
TUV EN60950

ELECTRICAL SPECIFICATIONS

Input

Input range 19 to 60 VDC (36Vdc Nom.)
Input capacitance 6.8μF (typical)
Efficiency 77%-3.3V Full load, 84%-5.0V Full load
Input reverse Fuse recommended 3A.MB
Voltage protection
Input surge voltage 100V for 100ms
Input reflected ripple <200mA (P-P)

Output

Voltage tolerance ± 1%

Line regulation ±0.2%(Typ), 1.0%(Max)

Load regulation 1.0%
Low Line - High Line @ Full Load

(10% to 100% load)
1A minimum load per rail required
Ripple/noise 100mV P-P(max)
Temperature coefficient +0.02%/°C (max)
Short circuit protection Continuous - Power Cycle
Overvoltage protection Shutdown (latching)
Transient response 4% Vo max recovery <100μsec
(25% to 75% step load change)
Switching frequency 375 kHz typical

Control

Enable on =2.5 to 5.5Vdc or open circuit
off = 0 to 0.8Vdc
Ref. to -Vin. TTL compatible
Input current (enable off) <2ma.
Output trim Both outputs ±10% minimum
Thermal shutdown 110°C typ (baseplate temperature)
Auto reset

Isolation

I/O isolation 1500 VDC
Isolation resistance 1 x 10⁹ ohms

Advance Copy



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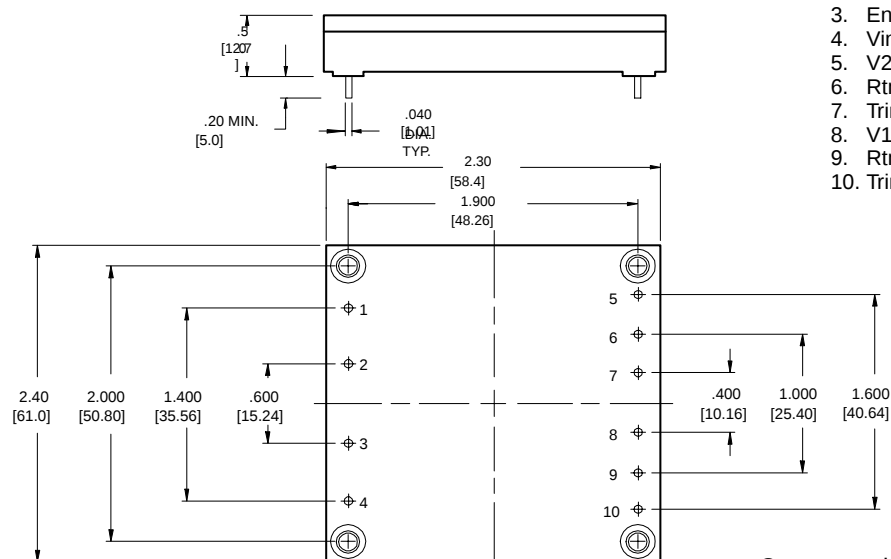
DCDC POWER

ORDERING INFORMATION

Input Voltage	Output 1 Voltage	Output 2 Voltage	Model Number
19 - 60VDC	5.0V @ 12A	3.3V @ 15A	AA60A-036L-050D033H

Note: Maximum output power not to exceed total 60W for 5/3.3V version.
The sum of output currents not to exceed 15 amps
Any output loading ratio within the maximum specified limits is possible.

DIMENSIONS



Mounting
Inserts
M3 X .5 (4 places)

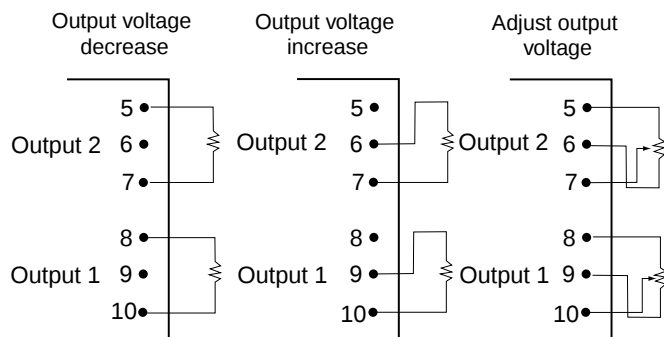
PIN ASSIGNMENT

Single Output

1. -Vin
2. Case
3. Enable (on/off)
4. Vin+
5. V2
6. Rtn (V2)
7. Trim (V2)
8. V1
9. Rtn (V1)
10. Trim (V1)

Case material: Metal base, plastic cover
Weight: 2.75 oz./ 78 grams

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NOTES

1. 20MHz bandwidth. An external 2.2μf ceramic capacitor is recommended to be placed from +V out to -V out.
2. Requires a 2.2μf, 100V film capacitor connected between +V in and -V in to meet FCC class A and ETS300-386-1 requirements for conducted noise.
3. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
4. All specifications subject to change without notice. Mechanical drawings are for reference only.
5. Please refer to the Technical Reference Notes for more information.