

AA25N

25 Watts

AA25N Series

Total Power	25 Watts
Input Voltages	12V, 24V, 48V
# of Outputs	Single, Dual, Triple

"Includes 5V/ 3.3V Dual Output Model"
Load Sharing



SPECIAL FEATURES

- Ideal for telecom/networking applications
- High efficiency
- Unencapsulated 2.0" x 2.0" x 0.50" package.
- Integral heat spreader available
- 100°C Baseplate temperature
- Enable (on/off)
- Thermal protection
- 350kHz Switching frequency
- Under voltage lockout

ENVIRONMENTAL

Operating case temperature range:
-40°C +100°C

Storage temperature: -40°C to +125°C

Humidity: 5% to 100%

SAFETY

UL	UL1950
CAN	CAN22.2-950
TUV	EN60950

ELECTRICAL SPECIFICATIONS

Input

Input range	9-18Vdc (12Vdc nominal)
	18-36 Vdc (24 Vdc nominal)
	36 - 75Vdc (48Vdc nominal)
Input capacitance	2μF typical
Input reverse voltage	Fuse recommended protection
Input surge voltage	100V for 100mS (048L)
	50V for 100mS (024L)
	36V for 100mS (012L)
Input reflected ripple	<10mA (P-P) See Note 2
Undervoltage lockout	Vin<32V (-048L ONLY)
Efficiency	82% typical

Output

Voltage tolerance	Main Output ±1.0%	Aux Output ±3.0%	Dual Output ±2.0%
Line regulation	Main Output ±0.1%	Aux Output ±0.5%	Dual Output ±0.2%
Load regulation	Main Output ±0.75%	Aux Output ±3.0%	Dual Output ±0.5%
		(10% to 100% load) Note 6.	
Noise/ripple	50mV P-P, Singles	100mVp-p, Dual, Triple	
Short circuit protection	Continuous power cycle		
Overvoltage protection	120% of V _o , Typ		
Transient response	2% V _o typ; recovery <500μsec typ		
	(25% step load change to within 1%V _o)		
Temperature coefficient	±0.2%/°C		
Switching frequency	350kHz		

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)	<10ma
Output trim	Single output models
Thermal shutdown	110°C Baseplate temperature (typ)
	Auto reset

Isolation

I/O isolation	1500Vdc
Isolation resistance	15 x 10 ⁸ ohms

NOTES

All specifications are typical at nominal line, full load and 25° C unless otherwise stated.
Specifications subject to change without notice.

