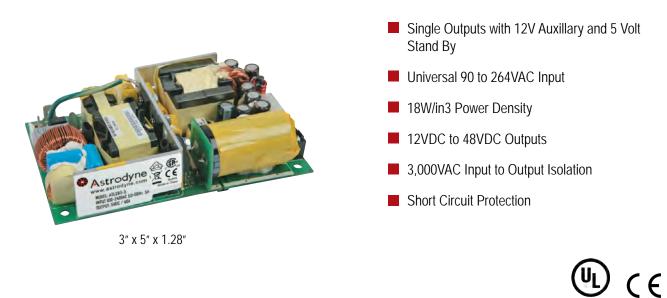


365W High Density PFC Switcher with 12V aux & 5V Stand By

ASL365 series



This specification describes an open frame 365W forced air / 200W convection cooled power supply that provides three independent direct constant voltage outputs, one of which may be configured as a stand by power supply (5V) powered from an external main AC source or UPS and utilizes an active PFC (Power Factor Correction) topology in an industry standard 3" x 5" x 1.28" package. Also included is a 12V auxilary output suitable for driving a fan. The supply shall meet the requirements (80-Plus) of the Energy Star 4.0 document and the anticipated 90+ requirement for 2010. The supply is also RoHS/WEEE compliant.

Model Number	O/P VDC	lout (Convection / 200LFM)	12V aux.	5VSB (5 Volt Stand By)	OVP
ASL365-12	12VDC	16.6 / 30.4A	0.5 / 1A	1 / 2A	13.2-15V
ASL365-24	24VDC	8.3 / 15.2A	0.5 / 1A	1/2A	26.4-30V
ASL365-48	48VDC	4.16 / 7.6A	0.5 / 1A	1 / 2A	52-60V

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

ASTRODYNE USA: 1-800-823-8082 ASTRODYNE PACIFIC: 886-2-26983458

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365W High Density PFC Switcher with 12V aux & 5V Stand By

INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC		
Harmonic Input Current	EN61000-3-2		
	(230V/50Hz; 100V/50 or 60Hz)		
Input Current FL	<5A @ 90VAC; <2.5A @ 180VAC		
Input Power Rating	<430 Watts		
Inrush Current	53A @ 110V; 116A @ 220V, typ.		
Efficiency	90%, typ.		
Input Frequency	47-63Hz		
Power Factor (90VAC)	0.98% min.		
Under Voltage Lockout	No Damage		
Transients	IEC61000-4-4 Level 3		
	IEC61000-4-5 Level 3		
Leakage Current (115/230 I/P)	110/275uA		

OUTPUT SPECIFICATIONS

±5% Main Output typ.		
Main O/P: ±1% max.; all others ±5%		
±1% High Line to Low Line		
Main O/P: ±3%; 5VSB: ±5%		
12V aux.: ±15%		
10% Recover within 1mS		
5VSB: 700mS, typ.		
All other outputs: 500mS, typ.		
Main O/P: 20mS. typ.		
5VSB: 2S, typ.		
5VSB: 0.7S		
All Other Outputs: 20mS max.		
Vout x 1.1; 50mS max.		
12V aux: 2% of Output		
All other outputs: ±1%		
Auto Recovery; No Damage *		
150%, Auto Recovery		
5VSB: 5.5-6.8V		
See Model Selection Chart		
<250mV drop compensation		
PS is off until enable signal		
(TTL or Ground) is applied		
Signal goes TTL high to indicate DC		
regulation		

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5V Standby (5VSB)	2A current always on when AC input
	is present
12V Auxilary	1A current to power cooling fan(s)

ASL365 series

GENERAL SPECIFICATIONS

3000VAC 1 Minute
UL 60950-1, 2nd Edition, 03-27-2007
covering European Market
3" x 5" x 1.28"

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-20 to +50°C (See Derate Curve)*
Max. Heatsink Temperatur	e 110°C @ 50°C ambient
Cooling	200LFM >200W O/P Power
Relative Humidity	95% Non Condensing
Storage Temperature	-40 to +80°C *
Operating Altitude	5KFT ASL, derated to 40°C @ 10KFT
Shock	10G, 11mS Half Sine, 3 Axis
Vibration	0.5G, 10-300Hz, 3 Axis
MTBF	>250,000 Hrs, 75% Load, 35°C
EMI/EMC E	EN55022:1998 (CISPR22 Class B Conducted)
Voltage Fluctuat	ion EN61000-3-3
ESD	EN61000-4-2, 15KV Air, 8KV Contact
Radiated Field	EN61000-4-3, 3V/m, 80-1000MHz
	80% Modulated; 3M distance
EFT	EN61000-4-4, 2kV on AC port for
	1 minute ±1kV on signal/ctrl lines
Surge	EN61000-4-5, ±1kV line to line;
	±2kV line to earth
Conducted RF	EN61000-4-6, 3Vrms, 0.15-80MHz
	80% Modulated
Voltage Variation	ns EN61000-4-11: >95% dip, 0.5 period
	30% dip. 0.25 period
	>95% reduction, 250 periods
Harmonic Current Emissio	ns IEC61000-3-2 Class D
Note 1: O/P Noise measur	ed directly at the nine/terminals at nominal

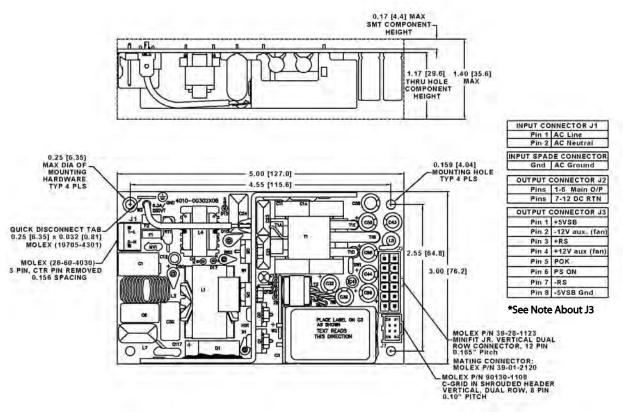
Note 1: O/P Noise measured directly at the pins/terminals at nominal load with a 0.1uF bypass and 47uF electrolytic capacitor; pk-pk @ 20MHz bandwidth.

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.



ASL365 series

MECHANICAL SPECIFICATION

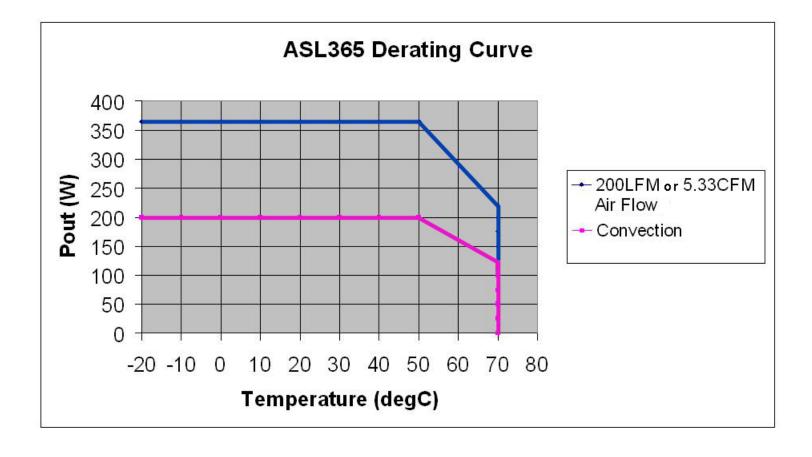


*Note: For proper ON operation please provide a connection (short) between Pins 6 (PS ON) and 8 (-5 AUX GND) on Connector J3

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DERATE CURVE



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