



- Small Footprint
- 1KVDC Isolation
- SIP Package
- Internal SMD Construction
- Temperature Range: -40°C to +85°C
- No Heat sink Required
- No External Component Required
- Industry Standard Pin out



The A-XS-W25&B-XLS-W25 Series are specially designed for applications where a group of polar power supplies are isolated from the input power supply in a distributed power supply system on =



PRODUCT PROGRAM

Part Number	Input		Output		Efficiency (% Typ)
	Voltage (VDC)		Voltage (VDC)	Current (mA) Max	
	Nominal	Nominal			
B0303XLS-W25	3.3	3.0-3.6	3.3	75.8	62
B0305XLS-W25			5	50	65
A0505XS-W25	5	4.5-5.5	±5	±25	62
A0509XS-W25			±9	±13.8	64
A0512XS-W25			±12	±10.4	66
A0515XS-W25			±15	±8.3	65
B0505XLS-W25			5	50	64
B0509XLS-W25			9	27.8	65
B0512XLS-W25			12	20.8	67
B0515XLS-W25	15	16.7	65		
A1205XS-W25	12	10.8-13.2	±5	±25	62
A1209XS-W25			±9	±13.8	63
A1212XS-W25			±12	±10.4	64
A1215XS-W25			±15	±8.3	65
B1203XLS-W25			3.3	75.8	62
B1205XLS-W25			5	50	65
B1209XLS-W25			9	27.8	66
B1212XLS-W25	12	20.8	67		
B1215XLS-W25	15	16.7	66		
A2405XS-W25	24	21.6-26.4	±5	±25	63
A2409XS-W25			±9	±13.8	64
A2412XS-W25			±12	±10.4	65
A2415XS-W25			±15	±8.3	65
B2405XLS-W25			5	50	63
B2409XLS-W25			9	27.8	63
B2412XLS-W25			12	20.8	65
B2415XLS-W25	15	16.7	65		
B2424XLS-W25	24	10.4	64		

COMMON SPECIFICATIONS

Item	Test conditions	Min	Typ	Max	Units
Storage humidity				95	%
Operating Temperature		-40		85	°C
Storage Temperature		-55		125	
Temp. rise at full load			15	25	
Lead temperature	1.5mm from case for 10 seconds			300	
Short circuit protection*				1	s
Cooling		Free air convection			
Case material		Plastic (UL94-V0)			
MTBF		3500			K hours
Weight			2.1		g

*Supply voltage must be discontinued at the end of short circuit duration.

ISOLATION SPECIFICATIONS

Item	Test conditions	Min	Typ	Max	Units
Isolation voltage	Tested for 1 minute and 1 mA max	1000			VDC
Isolation resistance	Test at 500VDC	1000			MΩ

APPLICATION NOTE

To ensure this module can operate efficiently and reliably, During operation, the minimum output load is not less than 10% of the full load, and that this product should never be operated under no load! If the actual output power is very small, please connect a resistor with proper resistance at the output end in parallel to increase the load.

Under normal operating conditions, the output circuit of these products has no protection against overload. The simplest method is to connect a self-recovery fuse in series at the input end or add a circuit breaker to the circuit.

If you want to further decrease the input/output ripple, an "LC"

OUTPUT SPECIFICATIONS

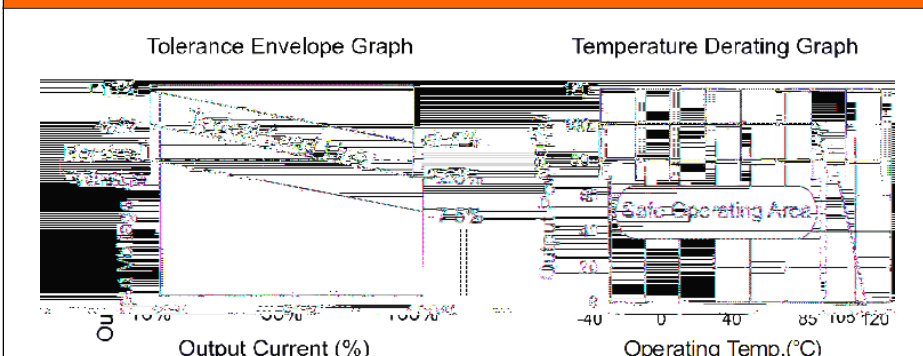
Item	Test conditions		Min	Typ	Max	Units
Output power					0.25	W
Line regulation	For Vin change of ± 1%	(3.3V input)			± 1.5	%
		(Others input)			± 1.2	
Load regulation	10% to 100% load	(3.3V output)		12	20	
		(5V output)		10.5	15	
		(9V output)		8.3	15	
		(12V output)		6.8	15	
		(15V output)		6.3	15	
Output voltage accuracy			See tolerance envelope graph			
Temperature drift	100% full load				0.03	%/C
Ripple & Noise*	20MHz Bandwidth			50	75	mVp-p
Switching frequency	Full load, nominal input			100		KHz

*Test ripple and noise by "parallel cable" method. See detailed operation instructions at Testing .

Note:

1. All specifications measured at TA =25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
2. See below recommended circuits for more details.
3. Dual output models unbalanced load: ± 5%.

TYPICAL CHARACTERISTICS



OUTLINE DIMENSIONS & PIN CONNECTIONS

