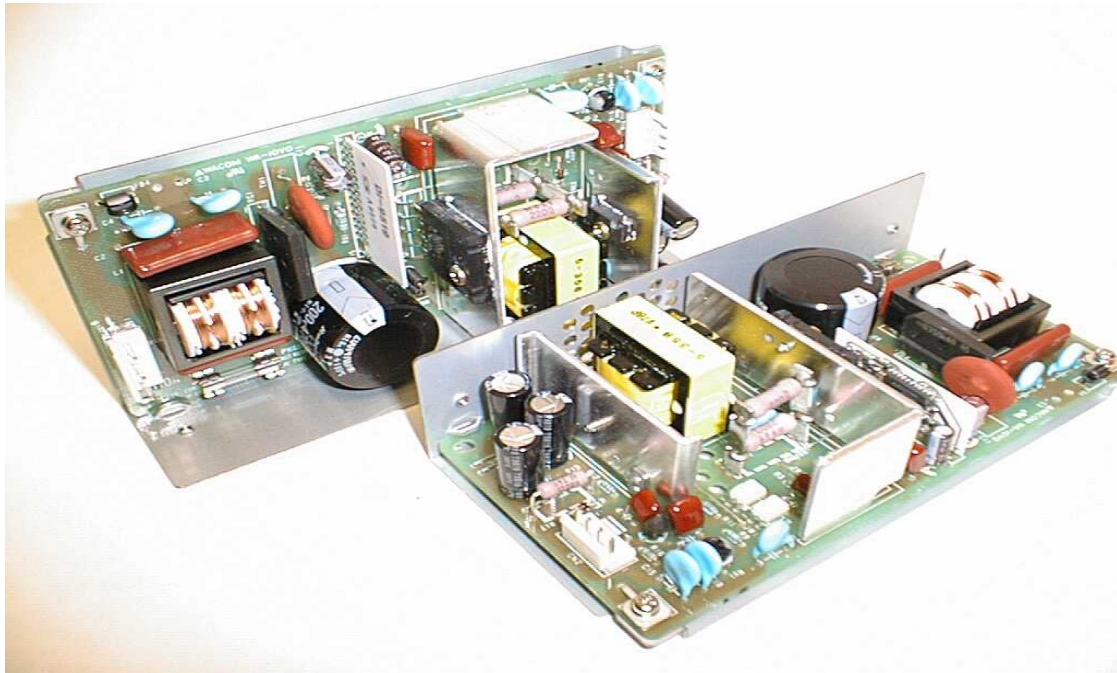


SLM SERIES

Multiple Outputs and Open Frame Switch Mode Power Supplies

The SLM Series power supplies with Flyback topology featuring an open frame design capable of meeting peak current (2.5 times more than the rated current) for 15 seconds. The SLM Series are suitable for office automation, industrial equipment, computer-peripheral or test equipment machine tool applications.



SanKen

			Rating		12 W			
Item			Conditions		SLM012-01		SLM012-02	
Input	Rated Input Voltage			AC100				
	Input Voltage Range			AC85~132V				
	Input Current	Rated input/output conditions		0.5A(max)				
	Inrush Current			50A (max)				
	Rated Frequency Range			50/60Hz (Frequency Range 48~440Hz)				
	Efficiency(typ)	Rated input/output conditions		60%				
Output	Rated Output Voltage			+5V	+12V	+5V	+12V	
	Adjustable Output Voltage Range			Fixed				
	Rated Output Current			0.7A				
	Adjustable Output Current Range			0.1~0.7A	0.1~1.1A (peak 1.1A 15s)	0.1~0.7A	0.1~1.1A (peak 1.1A 15s)	
	Maximum Output Power			11.9W				
	Ripple Noise(mVp-p)	Rated input/output condition		150	200	150	200	
	Constant Voltage Accuracy			±5%				
Other	Leakage Current	Rated input/output conditions		0.25mA (max)				
	Output Holdup Time	Rated input/output conditions		20ms (min)				
Additional Functions	Over Current Protection			Above0.8A	Above 1.2A	Above 0.8A	Above 1.2A	
	Over Voltage Protection			N/A				
	Remote Sensing			N/A				
	Remote On/Off Control			N/A				
	Display			N/A				
Environmental	Operating Temperature			0~+50℃				
	Storage Temperature			-10~+70℃				
	Operating Humidity			5~85% (No Condensation)				
	Storage Humidity							
Insulation	Insulation Withstad Voltage	Input to Output		AC 1250V for 1 minute, AC 1500V for 3 seconds				
		Input to Frame						
		Output to Frame						
	Insulation Resistance			Short-Circuit				
				50MΩ (measured with 500VDC Megger)				
				Short-Circuit				
Structural Specificati	Vibration Resistance			5~100Hz 1.5G 30 min. (X,Y,and Z directions with 3 min. vibration time)				
	Cooling Requirements			Natural Convection				
	External Appearance (W x D x H) mm			120 x 40 x 29.6		90 x 46 x 28.4		
	Weight (g)			150				
Applicable Standards	Safety Standards			UL1950D3, CSA 1402C Dentori				
	EMI Standards			VCCI Class 2				

			Rating	30 W	
				SLM030-01	
Item			Conditions		
Input	Rated Input Voltage		AC100V		
	Input Voltage Range		AC90~135V		
	Input Current	Rated input/output conditions		0.9A(typ)	
	Inrush Current		20A(max)		
	Rated Frequency Range		50/60Hz (Frequency Range 45~65Hz)		
	Efficiency (typ)	Rated input/output conditions		65%	
Output	Rated Output Voltage		+5V		+12V
	Adjustable Output Voltage Range		Fixed		
	Rated Output Current		2.0A		2.0A (peak 2.8A)
	Adjustable Output Current Range		0.1~2.0A		
	Maximum Output Power		30W		
	Ripple Noise	Rated input/output condition		60mVp-p	
	Constant Voltage Accuracy		Typ ±5%		
Other	Leakage Current	Rated input/output conditions		0.5mA(max)	
	Output Holdup Time	Rated input/output conditions		13ms (typ)	
Additional Functions	Over Current Protection		Yes		
	Over Voltage Protection (%)		5.8~6.8V		N/A
	Remote Sensing		N/A		
	Remote On/Off Control		N/A		
	Display		N/A		
Environmental	Operating Temperature		0~+40°C		
	Storage Temperature		-25~+85°C		
	Operating Humidity		30~90% (No Condensation)		
	Storage Humidity				
Insulation	Insulation Withstad Voltage	Input to Output		AC1500V for 1 minute	
		Input to Frame			
		Output to Frame			
	Insulation Resistance	Input to Output		100MΩ (measured with 500V DC Megger)	
		Input to Frame			
		Output to Frame			
Structural Specifications	Vibration Resistance		10~55Hz 2.5G 1 hour (X, Y, and Z directions with 1.5 min. vibration time)		
	Cooling Requirements		Natural Convection		
	External Appearance (W x D x H) mm		140 x 90 x 35		
	Weight (g)		250		
Applicable Standards	Safety Standards		UL478, CSA Electrical Bulletin 1402C		
	EMI Standards		FCC Part15-J Class B, VCCI Class 2		

			Rating		40 W			55 W		
Item			Conditions		SLM50212A			SLM50512		
Input	Rated Input Voltage		AC115V/AC230V			AC100V/AC200V				
	Input Voltage Range		AC90~135V/AC180~270V			AC85~132V/AC170~264V				
	Input Current	Rated input/output conditions	0.8A/0.5A (typ)			1.4A/0.8A (typ)				
	Inrush Current		20A/40A (typ)			30A (typ)				
	Rated Frequency Range		50/60Hz (Frequency Range 45~440Hz)			50/60Hz (Frequency Range 48~440Hz)				
	Efficiency (typ)	Rated input/output conditions	65%			68%				
Output	Rated Output Voltage		+5V	+12V	-12V	+5V	+12V	-12V		
	Adjustable Output Voltage Range		Fixed							
	Rated Output Current		2.5A	2.0A	0.1A	5A	2A	0.5A		
	Adjustable Output Current Range		0.45~2.5A	0.3~2.0A	0.04~0.1A	1~5A	0~2A	0~0.5A		
	Maximum Output Power		40W			55W				
	Ripple Noise	Rated input/output condition	150mVp-p							
	Constant Voltage Accuracy		±5%	±5%	-11~15V	±3%	±5%	±5%		
Other	Leakage Current	Rated input/output conditions	0.5mA(max)							
	Output Holdup Time	Rated input/output conditions	13ms (typ)			20ms (typ)				
	Switching Method, Transformer Frequency		RCC topology, approx. 30kHz (under rated input/output conditions)							
	Startup Time		70ms (typ)			200ms (typ)				
Additional Functions	Over Current Protection		Yes			150%	Yes			
	Over Voltage Protection (%)		115~137% of Rated Input Voltage			N/A				
	Remote Sensing		N/A							
	Remote On/Off Control		N/A							
	Display		N/A							
Environmental	Operating Temperature		0~+50°C			-10~+50°C				
	Storage Temperature		-25~+85°C							
	Operating Humidity		30~90% (No Condensation)							
	Storage Humidity									
Insulation	Insulation Withstad Voltage	Input to Output	AC1500V for 1 minute							
		Input to Frame								
		Output and Frame	AC500V for 1 minute							
	Insulation Resistance	Input to Output	100MΩ (measured with 500V DC Megger)							
		Input to Frame								
		Output to Frame								
Structural Specification	Vibration Resistance		10~55Hz 2.5G 1 hour (X,Y,and Z directions)							
	Cooling Requirements		Natural Convection							
	External Appearance (W x D x H) mm		160 x 100 x 47			180 x 112 x 50				
	Weight (g)		320			560				
Applicable Standards	Safety Standards		UL478, UL114 CSA Electrical Bulletin 1402C VDE(EN60950)			Dentori UL478, UL114 VDE0806 Class 1				
	EMI Standards		FCC Part15-J Class B, VDE0871 Class B							

			Rating	58 W		70 W		
Item			Conditions	SLM50224		SLM50812 (SLS001)		
Input	Rated Input Voltage		AC100V/AC200V					
	Input Voltage Range		AC85~132V/AC170~264V					
	Input Current	Rated input/output conditions	1.4A/0.8A (typ)			1.7A/1.0A (typ)		
	Inrush Current		30A (typ)					
	Rated Frequency Range		50/60Hz (Frequency Range 48~440Hz)					
	Efficiency (typ)	Rated input/output conditions	65%			68%		
Output	Rated Output Voltage		+5V	+24V	+5V	+12V	-12V	
	Adjustable Output Voltage Range		Fixed					
	Rated Output Current		2.0A			8A	2A	0.5A
	Adjustable Output Current Range		0~2A	0.2~2A	1~8A	0~2A	0~0.5A	
	Maximum Output Power		58W			70W		
	Ripple Noise	Rated input/output condition	150mVp-p					
	Constant Voltage Accuracy		±3%	±10%	±4%	±5%	±5%	
Other	Leakage Current	Rated input/output conditions	0.5mA(max)					
	Output Holdup Time	Rated input/output conditions	20ms (typ)					
	Switching Method, Transformer Frequency		RCC topology, approx. 30kHz (under rated input/output conditions)					
	Startup Time		200ms (typ)					
Additional Functions	Over Current Protection		Yes					
	Over Voltage Protection (%)		N/A					
	Remote Sensing		N/A					
	Remote On/Off Control		N/A					
	Display		N/A					
Environmental	Operating Temperature		-10~+50°C					
	Storage Temperature		-25~+85°C					
	Operating Humidity		30~90% (No Condensation)					
	Storage Humidity							
Insulation	Insulation Withstad Voltage	Input to Output	AC1500V for 1 minute					
		Input to Frame						
		Output to Frame	AC500V for 1 minute					
	Insulation Resistance	Input to Output	100MΩ (measured with 500V DC Megger)					
		Input to Frame						
		Output to Frame						
Structural Specification	Vibration Resistance		10~55Hz 2.5G 1 hour (X,Y,and Z directions)					
	Cooling Requirements		Natural Convection					
	External Appearance (W x D x H) mm		159 x 114 x 55			200 x 126 x 65		
	Weight (g)		520			750		
Applicable Standards	Safety Standards		UL478, UL114 VDE8606 Class1 Dentori					
	EMI Standards		FCC Part 15-J Class B			FCC Part 15-J Class B VDE0871 Class B		

			Rating		72 W		60 W	
Item			Conditions		SLM24212		SLM060-20	
Input	Rated Input Voltage		AC100V					
	Input Voltage Range		AC85~132V					
	Input Current	Rated input/output conditions	1.7A(typ)			1.5A(typ)		
	Inrush Current		30A (typ)			30A (typ)		
	Rated Frequency Range		50~60Hz (Frequency Range 47~63Hz)					
	Efficiency (typ)	Rated input/output conditions	70%			75%		
Output	Rated Output Voltage		+12V	+24V	+8V	+24V		
	Adjustable Output Voltage Range		Fixed					
	Rated Output Current		2.0A					
	Adjustable Output Current Range		0.3~2A	0.2~2A	0.2~2A	0.1~3A		
	Maximum Output Power		72W			16W		48W
	Ripple Noise	Rated input/output condition	150mVp-p			150mVp-p		240mVp-p
	Constant Voltage Accuracy		±10%			±5%		±10%
Other	Leakage Current	Rated input/output conditions	0.5mA(max)					
	Output Holdup Time	Rated input/output conditions	20ms (typ)					
	Switching Method, Transformer Frequency		RCC topology, approx. 30kHz (under rated input/output conditions)					
	Startup Time		200ms (typ)					
Additional Functions	Over Current Protection		Yes					
	Over Voltage Protection (%)		N/A					
	Remote Sensing		N/A					
	Remote On/Off Control		N/A					
	Display		N/A					
Environmental	Operating Temperature		0~+50°C					
	Storage Temperature		-25~+85°C					
	Operating Humidity		10~85% (No Condensation)			30~90% (No Condensation)		
	Storage Humidity							
Insulation	Insulation Withstad Voltage	Input to Output	AC1500V for 1 minute / AC1800V for 1 second			AC1500V for 1 minute		
		Input to Frame						
		Output to Frame	AC500V for 1 minute / AC600 for 1 second			AC500V for 1 minute		
	Insulation Resistance	Input to Output	50MΩ (measured with 500V DC Megger)			100MΩ (measured with 500V DC Megger)		
		Input to Frame						
		Output to Frame						
Structural Specifications	Vibration Resistance		10~20Hz (X, Y, and Z directions)			10~55Hz 2.5G 1 hour (X, Y, and Z directions)		
	Cooling Requirements		Natural Convection					
	External Appearance (W x D x H) mm		180 x 120 x 50			180 x 79 x 52		
	Weight (g)		510			330		
Applicable Standards	Safety Standards		UL478 Dentori			Dentori		
	EMI Standards		FCC Class B			FCC Part 15 Subpart J Class A		