





FEATURES

- Universal 165 264VAC or 200 373VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -30°C +70°C
- Low standby power consumption, high efficiency
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Safety according to IEC/EN/UL62368/EN60335/GB4943 (CE/CCC pending)
- Withstand 300VAC surge input for 5s
- Over-Voltage class III (designed to meet EN61558)
- Operating up to 5000m altitude

LM75-22Bxx series is one of Mornsun's enclosed AC-DC switching power supply. It features AC input and at the same time accepts DC input voltage, cost-effective, low no load power consumption, high efficiency and high reliability. These converters offer excellent EMC performance and meet IEC/EN61000-4, CISPR32/EN55032, IEC62368, UL62368, EN62368, EN60335, GB4943 standards and they are widely used in industrial, LED, street light control, electricity, security, telecommunications, smart home etc.

Selection						
Certification	Part No.	Output Power(W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range(V)	Efficiency at 230VAC (%) Typ.	Max. Capacitive Load (µF)
	LM75-22B05	70	5V/14A	4.5-5.5	86	10000
05/000	LM75-22B12	72	12V/6A	10.2-13.8	88	6000
CE/CCC (Pending)	LM75-22B15	75	15V/5A	13.5-18	88	5000
	LM75-22B24	76.8	24V/3.2A	21.6-28.8	90	1500
	LM75-22B48	76.8	48V/1.6A	43.2-52.8	91.5	680

Input Specifications							
Item	Operating Cond	Operating Conditions			Max.	Unit	
Inni di Valtara a Dan ara	AC input	AC input			264	VAC	
Input Voltage Range	DC input	200	-	373	VDC		
Input Voltage Frequency	Input Voltage Frequency			-	63	Hz	
Input Current	230VAC			-	1		
Inrush Current	230VAC	Cold start		65	-	Α	
Hot Plug Unava			ailable				

Output Specifica	tions					
Item	Operating Conditions	Min.	Тур.	Max.	Unit	
Output Voltage	Full load range	5V		±2	-	
Accuracy	ruii load tarige	12V/5V/4V/8V		±l	-	
Line Regulation	Rated load			±0.5	-	%
Load Dogulation	0% - 100% load	5V		±1	_	
Load Regulation		12V/5V/4V/8V		±0.5	-	
	20MHz bandwidth (peak-to-peak value)	5V		100	-	
Outro de Directo de Nota est		12V/5V		120	_	\/
Output Ripple & Noise*		24V		150	-	mV
		48V		200	-	

MORNSUN®

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO.,LTD.

AC/DC 75W Enclosed Switching Power Supply MORNSUN® LM75-22Bxx Series



Temperature Coefficient			±0.03		%/℃	
Minimum Load		0 %				
Stand-by Power Consumption		_		0.3	W	
Hold-up Time	230VAC	20			ms	
Short Circuit Protection	Recovery time is less than 5s after the short circuit disappear.	Hiccup, continuous, self-recovery			very	
Over-current Protection		110%-150% lo, self-recovery			у	
	5V	6.3VDC (Output voltage turn off, re-powers)			f, re-power	
	12V	< 16VDC (Output voltage clamp)				
Over-voltage Protection	15V	< 22VDC (Output voltage clamp)				
	24V	< 35VDC (Output voltage clamp)				
	48V	60VDC (Output voltage turn off, re-power on for recovery)				

Genero	al Specificat	tions						
Item		Operating Conditions		Min.	Тур.	Max.	Unit	
Input - 				2000				
Isolation Test	Input-output	Electric strength test for	4000	-	_	VAC		
1001	output - -		1250		-			
Insulation	Input - 🖶		At 500VDC					MΩ
Resistanc	Input - output	At 500VDC					_	
е	output - 🖶	_					-	
Operating Temperature				-30		+70	°C	
Storage Temperature				-40	-	+85		
Storage Hu	midity	Non-condensing		-		95	%RH	
Switching F	requency					65	-	kHz
Power Derating		Operating	5V output	+40°C to +70°C	1.3		-	0/ 100
		temperature derating	Other output	+50°C to +70°C	2	-	_	%/ ℃
Safety Standard					Meet IEC/E	N/UL62368/	EN60335/GB4	943
Safety Class					CLASS I	CLASS I		
MTBF					MIL-HDBK-2	.17F @25 ℃ >	>300,000 h	

Mechanical Specifications					
Case Material	Metal (AL1100, SGCC)				
Dimensions	99.00 x 97.00 x 30.00 mm				
Weight	210 g (Typ.)				
Cooling Method	Free air convection				

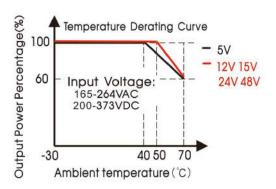
Electromagnetic Compatibility (EMC)						
EMI	CE	CISPR32/EN55032 CLASS B				
CIVII	RE	CISPR32/EN55032 CLASS B				
	ESD	IEC/EN 61000-4-2 Contact ±6KV /Air ±8KV	Perf. Criteria A			
	RS	IEC/EN 61000-4-3 10V/m	perf. Criteria A			
EMS	EFT	IEC/EN 61000-4-4 ±2KV	perf. Criteria A			
EIVIO	Surge	IEC/EN 61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A			
	CS	IEC/EN61000-4-6 10 Vr.m.s	perf. Criteria A			
	DIP	IEC/EN61000-4-11 0%, 70%	perf. Criteria B			

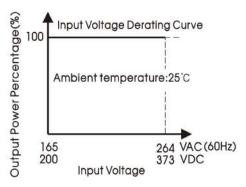
Product Characteristic Curve

MORNSUN®

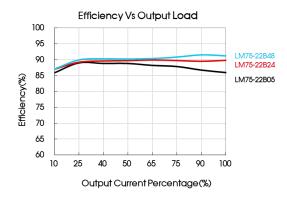
MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO.,LTD.

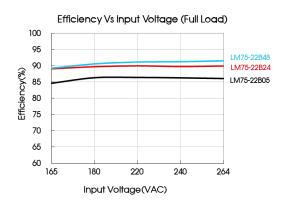




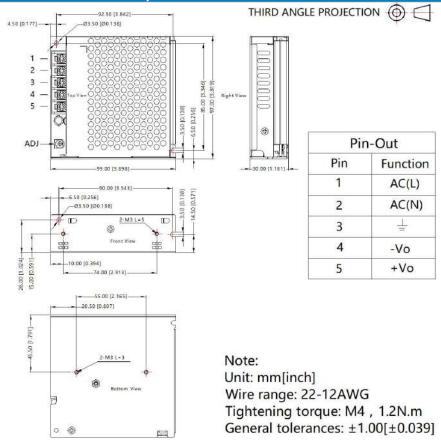


Note: ①This product is suitable for applications using natural air cooling; for applications in closed environment please consult Mornsun FAE.





Dimensions and Recommended Layout



AC/DC 75W Enclosed Switching Power Supply MORNSUN® LM75-22Bxx Series



Note:

- 1. For additional information on Product Packaging please refer to www.mornsun-power.com. Packaging bag number: 58220066;
- Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated output load;
- 3. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m;
- 4. All index testing methods in this datasheet are based on our Company corporate standards;
- 5. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability;
- 6. We can provide product customization service, please contact our technicians directly for specific information;
- 7. Products are related to laws and regulations: see "Features" and "EMC";
- 8. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.

Mornsun Guangzhou Science & Technology Co., Ltd.

Address: No. 5, Kehui St. 1, Kehui Development Center, Science Ave., Guangzhou Science City, Luogang District, Guangzhou, P. R. China Tel: 86-20-38601850 Fax: 86-20-38601272 E-mail: info@mornsun.cn www.mornsun-power.com

MORNSUN®

MORNSUN GUANGZHOU SCIENCE & TECHNOLOGY CO.,LTD.