

Наличие и актуальные цены на

LSP-160-24T

https://www.mean-well.ru/store/LSP-160-24T/





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Features

- Slim width and low profile(20mm)
- · Fanless design for noise free environment
- Withstand 300VAC surge input for 5 seconds
- · DC OK active signal function
- · Semi-Potting for high moisture environment
- Protections: Short circuit / Over load / Over voltage / Over temperature
- Current sharing for redundant function(5V/4.2V/3.3V only)
- · Max. operating wattage to 200W at 230V AC input
- Operating altitude up to 5000 meter (Note.5)
- · LED indicator for power on
- · 3 years warranty

Description

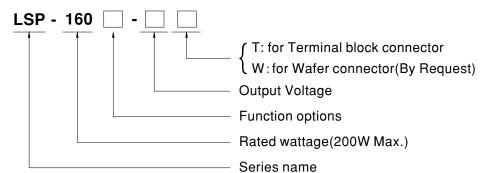
- Applications
 - Industrial automation machinery

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- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances
- LED display application

LSP-160 series is a 200W Max. single-output slim type power supply with 20mm of low profile design. Adopting the full range 100~264VAC input, the entire series provides an output voltage line of 3.3V,4.2V,5V, 12V, 24V, 36V and 48V. In addition to the high efficiency up to 93.5%, that the whole series operates from -30° C ~ 70° C under air convection without fan. LSP-160 has the complete protection functions and 5G anti-vibration capability; It is complied with the international safety regulations such as TUV BS EN/EN62368, UL62368 and GB4943. LSP-160 series serves as a high performance power supply solution for various industrial applications.

Model Encoding



Туре	Function	Note
Blank	Enclosed(DC voltage output)& Built-in DC OK active signal.	In Stock
R	Built-in DC OK active signal and current sharing function(3.3/4.2/5V).	In Stock



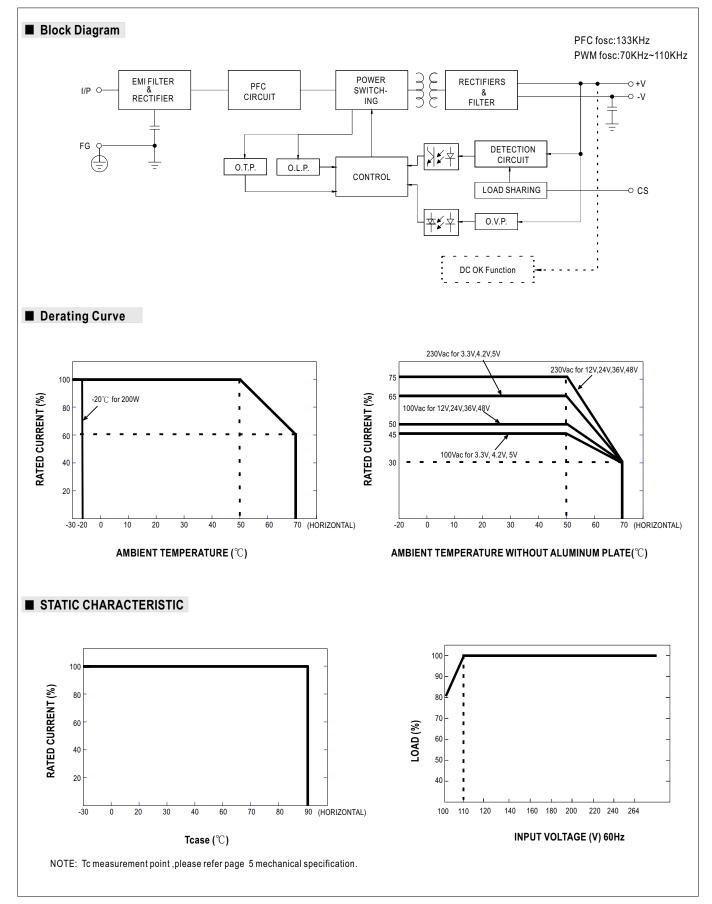
SPECIFICATION

	LSP-160 -3.3	LSP-160 -4.2	LSP-160 5	LSP-160-12	LSP-160-24	LSP-160-36	LSP-160-48	
							48V	
DOVOLINGE							3.4A	
RATED CURRENT Note.7							4.17A	
RATED POWER (convection) Note.7								
				-		-	163.2W	
, ,							200.16W	
							300mVp-p	
							45.6~50.4V	
							45.6~48V	
							±1.0%	
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%	
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	±2.0%@40ALoad							
SETUP, RISE TIME	2000ms, 110ms/230VAC 3000ms, 110ms/115VAC at full load							
HOLD UP TIME (Typ.)	8ms/230Vac 8ms/115VAC							
VOLTAGE RANGE Note.4	100 ~ 264VAC 141 ~ 370VDC							
FREQUENCY RANGE	47 ~ 63Hz							
POWER FACTOR (Typ.)	PF≥0.94/230VA0	C PF≥0.98/115VA	C at full load	Γ	I	I		
EFFICIENCY (Typ.)	87.5%	87.5%	89.5%	92.5%	93.5%	93.5%	93.5%	
AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230VAC						
INRUSH CURRENT (Typ.)	Cold start 45A/115VAC 85A/230VAC							
LEAKAGE CURRENT	<0.75mA / 240VAC							
SHORT CIRCUIT	Hiccup protection, recovers automatically after fault condition is removed							
	130 ~ 150% rated output power(based on 160W)							
OVER LOAD	Protection type : Constant current limiting,continous increase of load will be hiccup protection, recovers automatically after fault condition is removed							
	3.8~ 4.6V	4.62 ~ 5.46V	5.75 ~ 6.75V	13.2 ~ 15.6V	26.4 ~ 31.2V	39.6 ~46.8V	52.8~62.4V	
OVER VOLIAGE	Protection type :Shut down O/P voltage,re-power on to recover							
OVER TEMPERATURE	Shut down O/P voltage, re-power on to recover after temperature goes down							
CURRENT SHARING	Please refer to the Function Manual							
DC OK SIGNAL	Contact rating(max.):15Vdc/10mA resistive load							
WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")							
WORKING HUMIDITY	20 ~ 90% RH non-condensing							
STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH non-condensing							
TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY STANDARDS	UL62368,TUV BS EN/EN62368, CCC GB4943.1, EAC TP TC 004, BSMI CNS14336-1 approved, Design refer to BS EN/EN60335-1							
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC							
ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/ 70%RH							
EMC EMISSION	Compliance to BS EN/EN55032,GB17625.1,GB/T 9254.1,Class B, BS EN/EN55014,BS EN/EN61000-3-2,-3,EAC TP TC 020, BSMI CNS13438							
EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11;BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, criterial A,EAC TP TC 020							
MTBF	699.54K hrs min. Telcordia TR/SR-332(Bellcore) ;282.71K hrs min. MIL-HDBK-217F (25°C)							
DIMENSION	194*55*20mm (L*W*H)							
PACKING	0.356kg;30pcs/11	.68kg/0.6CUFT						
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 5[°]C/1000m is needed for operating altitude greater than 2000m(6500ft) 								
	RATED POWER (convection) Note.7 RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE for 200W VOLTAGE ADJ. RANGE for 200W VOLTAGE ADJ. RANGE for 200W VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) LEAKAGE CURRENT SHORT CIRCUIT OVER LOAD OVER VOLTAGE OVER VOLTAGE OVER VOLTAGE OVER SIGNAL WORKING TEMP. VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION PACKING 1. All parameters NOT specially of a still meets EMC directives. For cital may be needed under Still meets EMC directives. For cital meets EMC directives. For citan available on https://www.mathemathemathemathemathemat	RATED CURRENT Note.7 32A RATED POWER (convection) Note.7 105.6W RATED POWER (convection) Note.7 105.6W RIPPLE & NOISE (max.) Note.2 200mVp-p VOLTAGE ADJ. RANGE for 200W 3.2~3.3V VOLTAGE ADJ. RANGE for 200W 3.2~3.3V VOLTAGE TOLERANCE Note.3 ±2.0% LINE REGULATION ±0.5% LOAD REGULATION ±1.0% SETUP, RISE TIME 2000ms, 110ms/23 HOLD UP TIME (Typ.) 8ms/230Vac 8m VOLTAGE RANGE Note.4 POWER FACTOR (Typ.) PF≥0.94/230VAC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 2.2A/115VAC INRUSH CURRENT (Typ.) Cold start 45A/115 LEAKAGE CURRENT <0.75mA/ 240VAC SHORT CIRCUIT Hiccup protection OVER LOAD 7000 Frotection type : 5 OVER VOLTAGE Short own O/P vo CURRENT SHARING Please refer to the DC OK SIGNAL Contact rating(ma WORKING TEMP. -30 ~ +70°C (Refe WORKING TEMP. -30 ~ +70°C (Refe WORKING TEMP. -009% RH non-	RATED CURRENT Note.7 32A 32A RATED CURRENT Note.7 32A 40A 40A RATED POWER (convection) Note.7 105.6W 134.4W RIPPLE & NOISE (max.) Note.2 200mVp-p 200mVp-p VOLTAGE ADJ. RANGE for 200W 3.2~3.3V 4~4.5V VOLTAGE TOLERANCE Note.3 ±2.0% ±2.0% LINE REGULATION ±0.5% ±0.0% LOAD REGULATION ±1.0% ±1.0% HOLD UP TIME (Typ.) 8ms/230Vac ms/15VAC VOLTAGE RANGE Note.4 100 ~264VAC 141 ~370VDC FREQUENCY RANGE Note.4 100 ~264VAC FF ≥0.98/2130VAC NURSH CURRENT (Typ.) S75% 87.5% 87.5% AC CURRENT (Typ.) Cold start 45A/15VAC 85A/230V LEAKAGE CURRENT <0.75mA / 240VAC restoweddatatatatatatatatatatatatatatatatatata	32A 32A 32A RATED CURRENT Note.7 32A 32A 32A RATED POWER (convection) Note.7 105.6W 134.4W 160W RIPPLE & NOISE (max.) Note.2 200mVp.p 200mVp.p 200mVp.p VOLTAGE ADJ. RANGE 020W 3.2~3.5V 4~4.5V 4.7~5.3V VOLTAGE ADJ. RANGE 020W 3.2~3.5V 4~4.2V 4.7~5.V VOLTAGE TOLERANCE Note.3 2.0% ±2.0% ±2.0% ±0.5% LOAD REGULATION ±0.5% ±0.5% ±0.5% ±0.5% LOAD REGULATION ±1.0% ±1.0% ±1.0% ±1.0% LOAD REGULATION ±0.5% ±0.5% ±0.5% ±0.5% VOLTAGE RANGE Note.4 100~284/AC 141 – 370/DC FREQUENCY RANGE 47 - 631z POWER FACTO (Typ.) 87.5% 87.5% 89.5% 60.5% AC CURRENT (Typ.) 2.24/115VAC 15A/230VAC ILLAKAGE CURRENT AC CURRENT (Typ.) Cold start 45A/115VAC 85A/230VAC ELEAKAGE CURRENT OVER LOAD 130 ~ 150% rated o	Constrain BATE DOURRENT Note.7 BATE DOURDENT NOTE NOT	Constraint Constraint <thconstraint< th=""> Constraint Constrai</thconstraint<>	Construct S2A S	



Slim Type with PFC Switching Power Supply

LSP-160 series

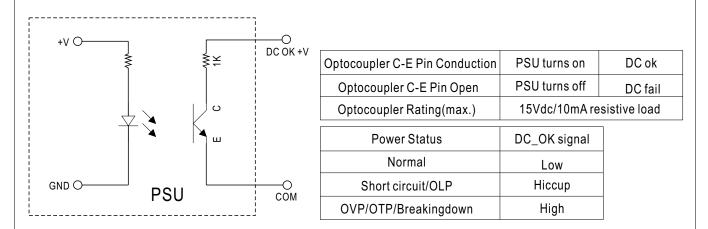




Function Manual

1.DC_OK Signal

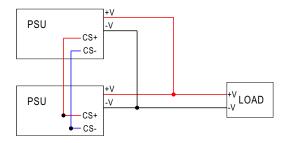
DC_OK is a collector shorted signal. It is used by an optocoupler in the power supply which indicates the output status of the power supply as exhibited below.



2.Redundant function:

LSP-160 has built-in redundant function and can be connected 2 units in parallel for current sharing.

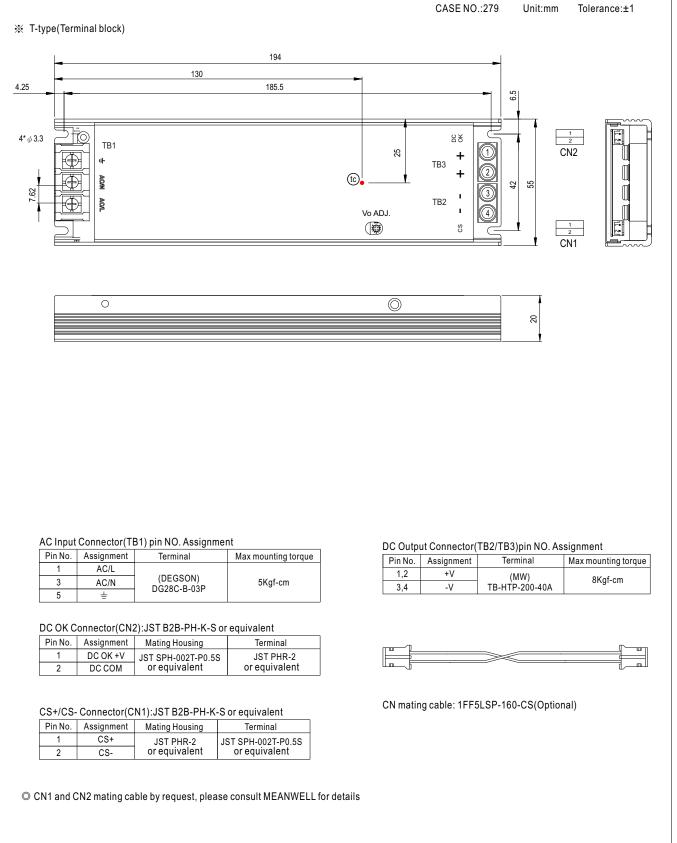
- % Difference of output voltages among parallel units should be less than 0.2V(Can Fine tune by SVR1).
- % When in parallel operation the maximum load should not be greater than the rated power.
- When output current<(30% rate current) × (Number of unit), the current shared among units may not be fully balanced. And the LED indicator maybe flash of one of them, but not effecting normal working.



© CS+/CS- on CN1 are connected mutually in parallel(Note:CS+/CS- do not reverse connection).



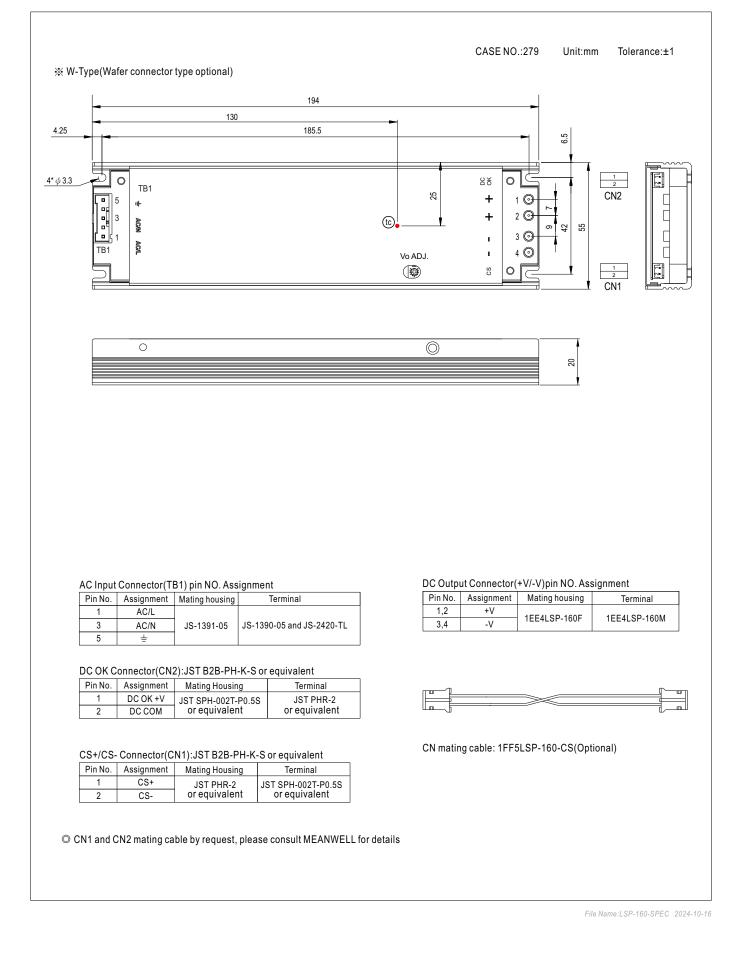
Mechanical Specification





Slim Type with PFC Switching Power Supply

LSP-160 series





Installation

1.Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", LSP-160 series must be installed onto an aluminum plate(or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and LSP-160 series must be firmly mounted at the center of the aluminum plate.

