

Наличие и актуальные цены на

LSP-160-4.2T

https://www.mean-well.ru/store/LSP-160-4.2T/































■ 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

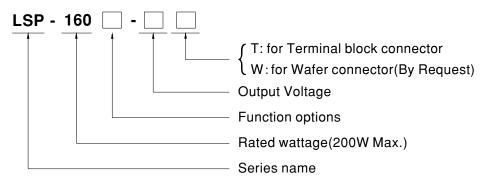
Applications

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

Description

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



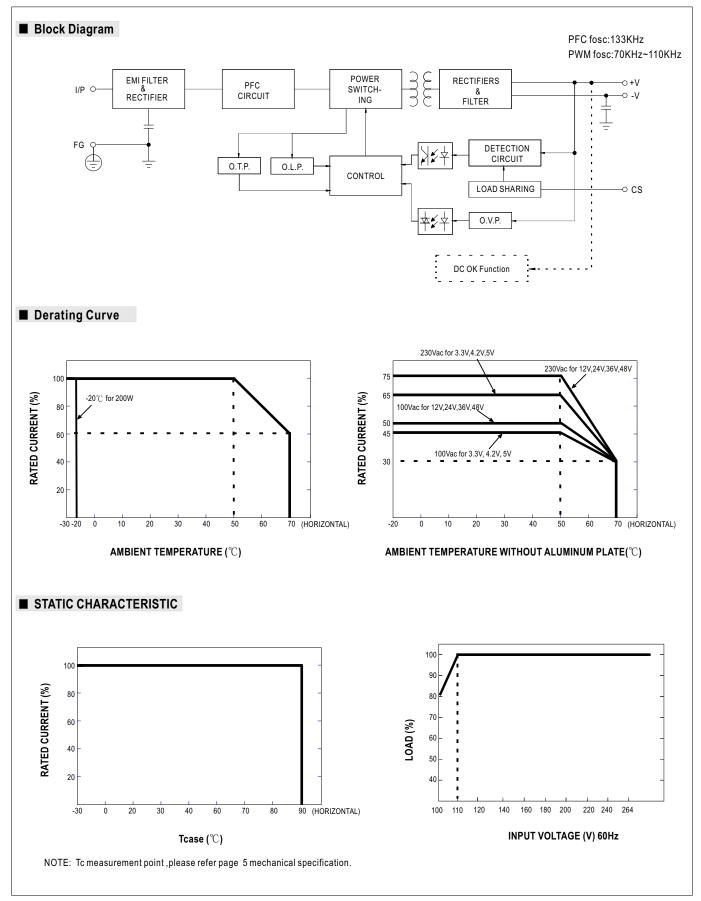
	Type	Function	Note
Ī	Blank	Enclosed(DC voltage output)& Built-in DC OK active signal.	In Stock
Ī	R	Built-in DC OK active signal and current sharing function(3.3/4.2/5V).	In Stock



SPECIFICATION

MODEL		LSP-1603.3	LSP-160 -4.2	LSP-1605	LSP-160-12	LSP-160-24	LSP-160-36	LSP-160-48
	DC VOLTAGE	3.3V	4.2V	5V	12V	24V	36V	48V
		32A	32A	32A	13.5A	6.75A	4.5A	3.4A
	RATED CURRENT Note.7	40A	40A	40A	16.68A	8.34A	5.56A	4.17A
	DATED DOWED	105.6W	134.4W	160W	162W	162W	162W	163.2W
	RATED POWER (convection) Note.7	132W	168W	200W	200.16W	200.16W	200.16W	200.16W
	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p	240mVp-p	240mVp-p	240mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	3.2~3.5V	4~4.5V	4.7~5.3V	11.4~12.6V	22.8~25.2V	34.2~37.8V	45.6~50.4V
DUTPUT	VOLTAGE ADJ. RANGE for 200W		4~4.2V	4.7~5.3V	11.4~12.0V	22.8~24V	34.2~37.6V	45.6~48V
	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.3%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.3 /0			10.376
	LOAD REGULATION	⊥1.076		11.0%	±0.5%	±0.5%	±0.5%	±0.5%
	OFTUD DIOF TIME	0000	±2.0%@40A Load	440 (445) (4.0)	6.01 4			
	SETUP, RISE TIME	2000ms, 110ms/23		s, 110ms/115VAC at	full load			
	HOLD UP TIME (Typ.)		ns/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	T	T	T	1
NPUT	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/115	VAC 85A/230V	AC				
	LEAKAGE CURRENT	<0.75mA / 240VA0	;					
	SHORT CIRCUIT	Hiccup protection, recovers automatically after fault condition is removed 130 ~ 150% rated output power(based on 160W) Protection type: Constant current limiting, continous increase of load will be hiccup protection, recovers automatically after fault condition is removed						
	OVER LOAD						ically after	
PROTECTION				5.75 0.75)/	400 4504	201 2121		T
	OVER VOLTAGE	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
	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						
FUNCTION	CURRENT SHARING	Please refer to the	Function Manual					
	DC OK SIGNAL	Contact rating(max.):15Vdc/10mA resistive load						
	WORKING TEMP.	-30 ~ +70°C (Refe	r to "Derating Curve	")				
	WORKING HUMIDITY	20 ~ 90% RH non-	-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~	95% RH non-conde	nsing				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50)°C)					
	VIBRATION	10 ~ 500Hz, 5G 1	Omin./1cycle, 60min	. each along X, Y, Z	axes			
	SAFETY STANDARDS	UL62368,TUV BS	EN/EN62368, CCC	GB4943.1, EAC TP	TC 004, BSMI CNS	14336-1 approved,	Design refer to BS E	N/EN60335-1
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2KVAC	O/P-FG:1.25KVAC	;			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/	P-FG:100M Ohms/5	500VDC/25℃/70%	RH			
(Note.6)	EMC EMISSION	Compliance to BS BSMI CNS13438	EN/EN55032,GB17	'625.1,GB/T 9254.1	,Class B, BS EN/EN	55014,BS EN/EN61	000-3-2,-3,EAC TP	TC 020,
	EMC IMMUNITY	criterial A,EAC TF	PTC 020		:N61000-6-2 (BS EN		N/EN55035, heavy ir	ndustry level ,
	MTBF	699.54K hrs min.	Telcordia TR/SR-33	2(Bellcore) ;282.71	K hrs min. MIL-HDE	3K-217F (25°C)		
OTHERS	DIMENSION	194*55*20mm (L*	W*H)					
	PACKING	0.356kg;30pcs/11	.68kg/0.6CUFT					
NOIL	All parameters NOT specially in 2. Ripple & noise are measured in 3. Tolerance: includes set up tole 4. Derating may be needed under 5. The ambient temperature dera 6. The power supply is considered still meets EMC directives. For (as available on https://www.m.m	at 20MHz of bandwrance, line regulative low input voltage ting of 5°C/1000m at a component who guidance on how eanwell.com//Uploe up to 200W at 20	vidth by using a 12 on and load regula s. Please check th is needed for oper ich will be installed to perform these E ad/PDF/EMI_state	"twisted pair-wire tion. e derating curve for rating altitude great d into a final equipr EMC tests, please of ment_en.pdf)	terminated with a 0 or more details. ter than 2000m(650 ment. The final equi refer to "EMI testing	0.1uf & 47uf paralle 00ft) ipment must be re- g of component por	confirmed that it wer supplies."	guarantee the



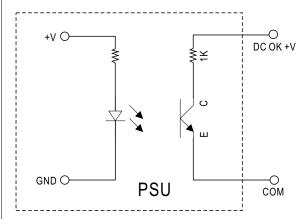




■ Function Manual

1.DC_OK Signal

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



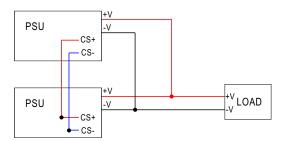
Optocoupler C-E Pin Conduction	PSU turns on	DC ok
Optocoupler C-E Pin Open	PSU turns off	DC fail
Optocoupler Rating(max.)	15Vdc/10mA re	sistive load

Power Status	DC_OK signal
Normal	Low
Short circuit/OLP	Hiccup
OVP/OTP/Breakingdown	High

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.
- \times When output current<(30% rate current) \times (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.



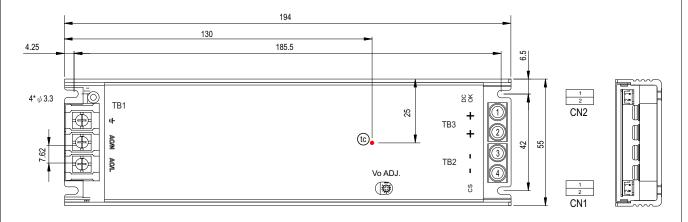
© CS+/CS- on CN1 are connected mutually in parallel (Note: CS+/CS- do not reverse connection).



■ Mechanical Specification

CASE NO.:279 Unit:mm Tolerance:±1

T-type(Terminal block)





AC Input Connector(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L		
3	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm
5	÷	DG20C-B-03P	

DC OK Connector(CN2):JST B2B-PH-K-S or equivalent

	,	,	
Pin No.	Assignment	Mating Housing	Terminal
1	DC OK +V	JST SPH-002T-P0.5S	JST PHR-2
2	DC COM	or equivalent	or equivalent

CS+/CS- Connector(CN1):JST B2B-PH-K-S or equivalent

	20 / 20 20 model (2111) 100 1 222 1 11 11 0 01 0 qui vaioni				
Pin No.	Assignment	Mating Housing	Terminal		
1	CS+	JST PHR-2	JST SPH-002T-P0.5S		
2	CS-	or equivalent	or equivalent		

DC Output Connector(TB2/TB3)pin NO. Assignment

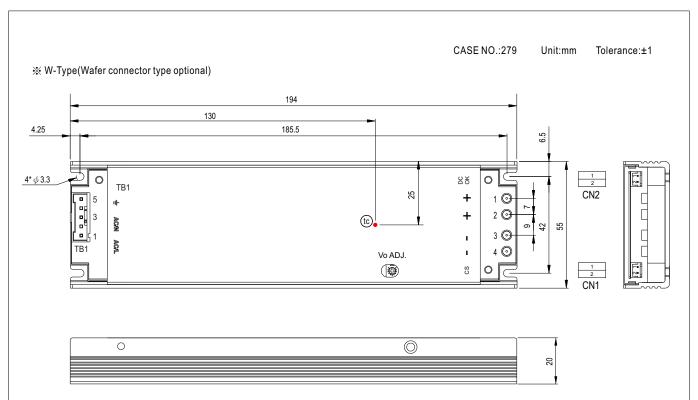
Pin No.	Assignment	Terminal	Max mounting torque
1,2	+V	(MW)	8Kqf-cm
3,4	-V	TB-HTP-200-40A	Ortgi-ciii



CN mating cable: 1FF5LSP-160-CS(Optional)

© CN1 and CN2 mating cable by request, please consult MEANWELL for details





AC Input Connector(TB1) pin NO. Assignment

Pin No.	Assignment	Mating housing	Terminal
1	AC/L		
3	AC/N	JS-1391-05	JS-1390-05 and JS-2420-TL
5	÷		

DC OK Connector(CN2):JST B2B-PH-K-S or equivalent

	,	,	
Pin No.	Assignment	Mating Housing	Terminal
1	DC OK +V	JST SPH-002T-P0.5S	JST PHR-2
2	DC COM	or equivalent	or equivalent

CS+/CS- Connector(CN1):JST B2B-PH-K-S or equivalent

55 / 55 5565to.(5),155 : 222 : K 5 5: 5qa.ra.6				
Pin No.	Assignment	Mating Housing	Terminal	
1	CS+	JST PHR-2	JST SPH-002T-P0.5S	
2	CS-	or equivalent	or equivalent	

DC Output Connector(+V/-V)pin NO. Assignment

Pin No.	Assignment	Mating housing	Terminal
1,2	+V	1EE4LSP-160F	1EE4LSP-160M
3,4	-V	1EE4LSP-160F	TEE4LSP-160M



CN mating cable: 1FF5LSP-160-CS(Optional)



■ 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.

unit:mm

