



■ Features :

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Low leakage current<1mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Low profile:31mm
- · Conformal coated
- LED indicator for power on
- Suitable for high efficiency moving sign applications
- 3 years warranty

SPECIFICATION

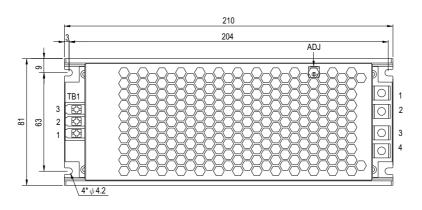


MODEL		HSP-300-2.8	HSP-300-4.2	HSP-300-5		
OUTPUT	DC VOLTAGE	2.8V	4.2V	5V		
	RATED CURRENT	60A	60A	60A		
	CURRENT RANGE Note.5	0 ~ 60A	0 ~ 60A	0 ~ 60A		
	RATED POWER(convection)	168W	252W	300W		
	RIPPLE & NOISE (max.) Note.2	110mVp-p	150mVp-p	150mVp-p		
	VOLTAGE ADJ. RANGE	2.5~3V	3.6~4.4V	4.5~5.5V		
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	2000ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load				
	HOLD UP TIME (Typ.)	8ms/230VAC 8ms/115VAC at full load				
	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC or 90~135VAC 127~190VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.93/230VAC PF≥0.98/115VAC	C at full load			
INPUT	EFFICIENCY (Typ.)	80%	85%	87%		
	AC CURRENT (Typ.)	2.8A/115VAC 1.4A/230VAC	3.9A/115VAC 1.95A/230VAC	4.7A/115VAC 2.35A/230VAC		
	INRUSH CURRENT (Typ.)	Cold start 30A/115VAC 60A/230VAC				
	LEAKAGE CURRENT	<1mA/240VAC				
		105~150% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION		3.22 ~ 3.78V	4.6 ~ 5.4V	5.7 ~ 7.0V		
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after fault condition is removed				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1,EN60950-1,CCC GB4943 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C / 70%RH				
(Note 5)	EMC EMISSION	Compliance to EN55032 (CISPR32), GB9254, Class B, EN61000-3-2, -3, GB17625.1				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN55024, light industry level (surge 4KV), criteria A				
	MTBF	263.2K hrs min. MIL-HDBK-217F (25°ℂ)				
OTHERS	DIMENSION	210*81*31mm (L*W*H)				
	PACKING	0.8kg; 15pcs/ 12.1kg/ 0.7CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up tole Derating may be needed ur Please refer to "Static Char. The power supply is consided a 450mm*450mm metal plant.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. erance, line regulation and load regulation. nder low input voltages. Please check the static characteristics for more details. racteristics". dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on ate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to blease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)				
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■ Mechanical Specification

CASE NO.: 233B Unit:mm





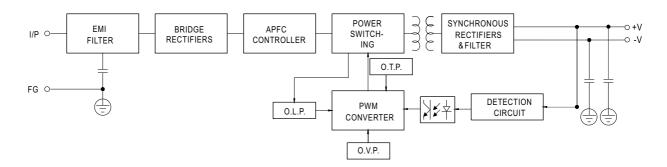
AC Input Terminal(TB1) pin NO. Assignment

	Pin No.	Assignment	Terminal
	1	AC/L	
	2	AC/N	DG28C-B-03P-13-00AH
	3	÷	

DC Output Terminal pin NO. Assignment

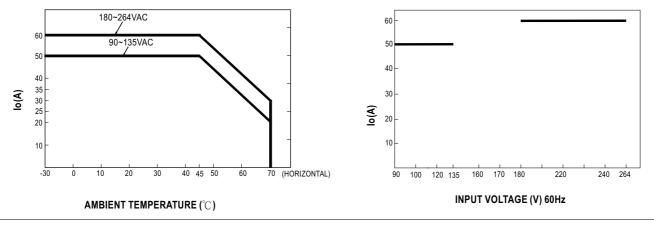
Pin No.	Assignment	Terminal	
1,2	+V	NEL-400-02P	
3,4	-V		

■ Block Diagram



■ Derating Curve

■ Static Characteristics

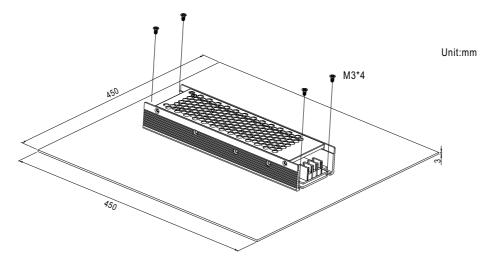




■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", HSP-300 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 HSP-300 series must be firmly mounted at the center of the aluminum plate.



2.For heat dissipation, at least 5cm installation distance around the PSU should be kept, shown as below:

