



■ Features :

- Low leakage current<1mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by aluminum plate or the cabinet
- Low profile:31mm
- Conformal coated
- LED indicator for power on
- Low cost, high power reliability
- 100% full load burn-in test
- 2 years warranty

SPECIFICATION [] c Thus

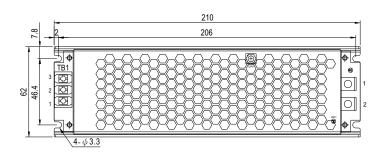
MODEL		HSN-200-4.2A	HSN-200-4.2B	HSN-200-5A	HSN-200-5B	
	DC VOLTAGE	4.2V	4.2V	5V	5V	
OUTPUT	RATED CURRENT Note.2	30A	40A	30A	40A	
	CURRENT RANGE	0 ~ 30A	0~40A	0 ~ 30A	0 ~ 40A	
	RATED POWER(convection)	126W	168W	150W	200W	
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	3.6~4.4V	3.6~4.4V	4.5~5.5V	4.5~5.5V	
	VOLTAGE TOLERANCE Note.4	±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	
	SETUP, RISE TIME	1500ms, 100ms/230VAC 2500ms, 100ms/115VAC				
	HOLD UP TIME (Typ.)	20ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE	90~132VAC or 254~373VDC	180~264VAC or 254~373VDC	90~132VAC or 254~373VDC	180~264VAC or 254~373VDC	
	FREQUENCY RANGE	47 ~ 63Hz			•	
	EFFICIENCY (Typ.)	86.5%	88%	86.5%	88%	
	AC CURRENT (Typ.)	3.0A/115VAC 2.5A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START <80A(twidth<1000µs measured at 50% Ipeak) at 115/230VAC				
	LEAKAGE CURRENT	<1mA				
		A Type:105~185% rated output power B Type:105~140% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	OVER VOLTAGE	4.6 ~ 5.4V 5.7 ~ 7.0V				
		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down				
	WORKING TEMP.	-25 ~ +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, 3G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY &	SAFETY STANDARDS	UL60950-1, EAC TP TC 004 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:2KVAC 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	Refer to EN55022 (CISPR22) Class A, EAC TP TC 020				
	EMC IMMUNITY	Refer to EN61000-4-5; 4KV, criteria A, EAC TP TC 020				
OTHERS	MTBF	283.069K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	210*62*31mm (L*W*H)				
	PACKING	0.55kg; 20pcs/12kg/1.63CUFT				
NOTE	Please refer to "static charac Ripple & noise are measure Tolerance : line regulation a Derating may be needed ur The power supply is conside EMC directives.	re measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.				

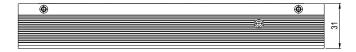


■ Mechanical Specification

CASE NO.:232A

Unit:mm





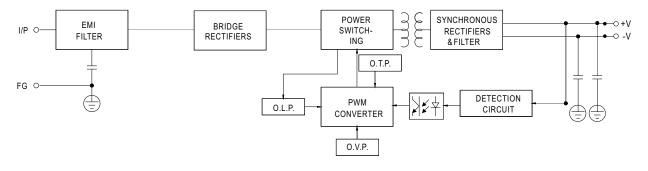
AC Input Terminal(TB1) pin NO. Assignment

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

DC Output Terminal pin NO. Assignment

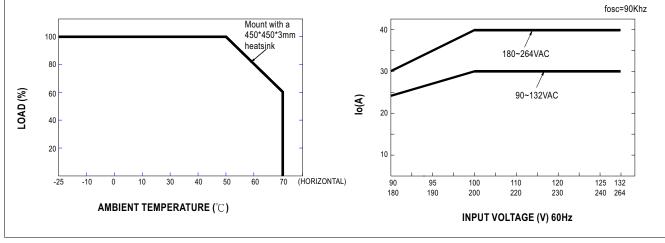
Pin No.	Assignment	Terminal	
1	-V	CPB-7 M5	
2	+V	CPB-7 IVIS	

■ Block Diagram



■ Derating Curve

■ Static Characteristics

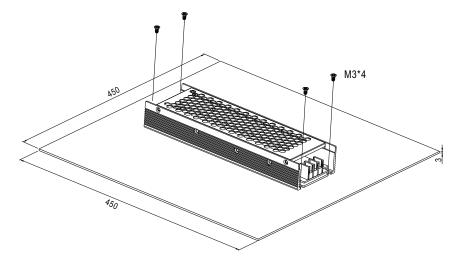




■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", HSN-200 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 HSN-200 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:

