

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ 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



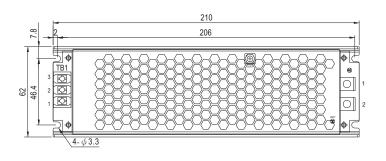
MODEL		HSN-200-4.2A	HSN-200-4.2B	HSN-200-5A	HSN-200-5B		
	DC VOLTAGE	4.2V	4.2V	5V	5V		
ОИТРИТ	RATED CURRENT Note.2	30A	40A	30A	40A		
	CURRENT RANGE	0 ~ 30A	0~40A	0 ~ 30A	0 ~ 40A		
	RATED POWER(convection)	126W	168W	150W	200W		
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p		
	VOLTAGE 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 2500	Oms, 100ms/115VAC				
	HOLD UP TIME (Typ.)	20ms/230VAC 16ms/115VAC at full load					
	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					
l	EFFICIENCY (Typ.)	86.5%	88%	86.5%	88%		
INPUT	AC CURRENT (Typ.)	3.0A/115VAC 2.5A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START <80A(twidth<1000µs measured at 50% lpeak) 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					
	SHORT CIRCUIT	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION		4.6 ~ 5.4V 5.7 ~ 7.0V					
	OVER VOLTAGE	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 STANDARDS	UL60950-1, EAC TP TC 004 approved					
CAFETY	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C / 70%RH					
EMC (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 characts. Ripple & noise are measure 4. Tolerance: line regulation a 5. Derating may be needed ur	asured 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





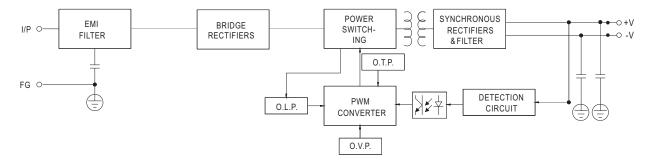
AC Input Terminal(TB1) pin NO. Assignment

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

DC Output Terminal pin NO. Assignment

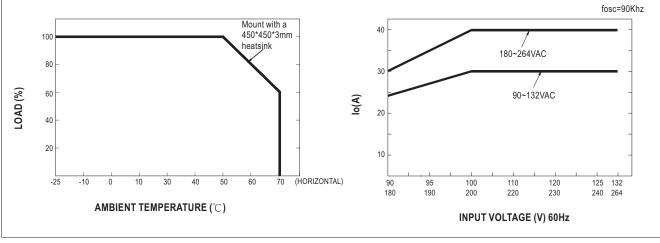
Pin No.	Assignment	Terminal	
1	-V	CPB-7 M5	
2	+V	CPB-7 IVIS	

■ Block Diagram



■ Derating Curve

■ Static Characteristics

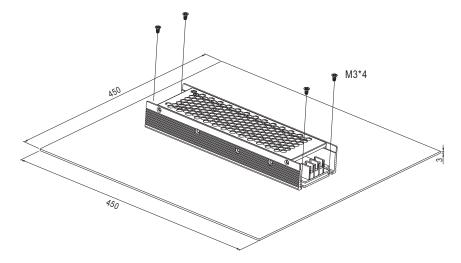




■ Installation

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:

