HS-1201 Switching Power Supply

Shindengen America, Inc.

Switching Power Supply for UNIX Servers and Communication Systems
(Preliminary Data)

The HS-1201 switching power supply is a 48Vdc, single-rail power supply for use in developing highly reliable, upgradable distributed power systems for UNIX servers and communications systems. The dual output (48V, 12V) HS-1201 is designed for use in either modular or integrated systems.

FEATURES

- SSI (Server System Infrastructure), DPS Version 2.1 compliant.
- Front end for highly reliable Distributed Power Systems (DPS).
- Dual output: 48V, 12V.
- Input current harmonics corrected (EN61000-3-2 compliant).
- Parallel operation with N+1 redundancy for up to 10 units (Internal ORing Diodes).
- Hot-swappable.
- Remote control.
- Fan-speed control.
- High efficiency using Shindengen's innovative Partial Resonant Circuit (PRC):
  90% (typ.) (220VAC Input, Full Load)
  85% (typ.) (110VAC Input, Full Load)
- Chassis not used as heatsink. Chassis temp. rise lower than 10˚C.

SPECIFICATIONS

1. Electrical Specifications

Input Range	Universal Input 90VAC ~ 264VAC
Input Voltage Frequency	47Hz to 63Hz
Output	1.2kW with 200-240VAC Input (48V 24A, 12V 4A) 700W with 100-120VAC Input (48V 13.5A, 12V 4A)
Hold Up Time	20msec min. (At full load and nominal line input)
Protection	Overcurrent, Overvoltage (55V max.), Short Circuit and Thermal
Forced Current Sharing for Parallel Operation	Standard

2. Environment, Safety Approvals and EMI

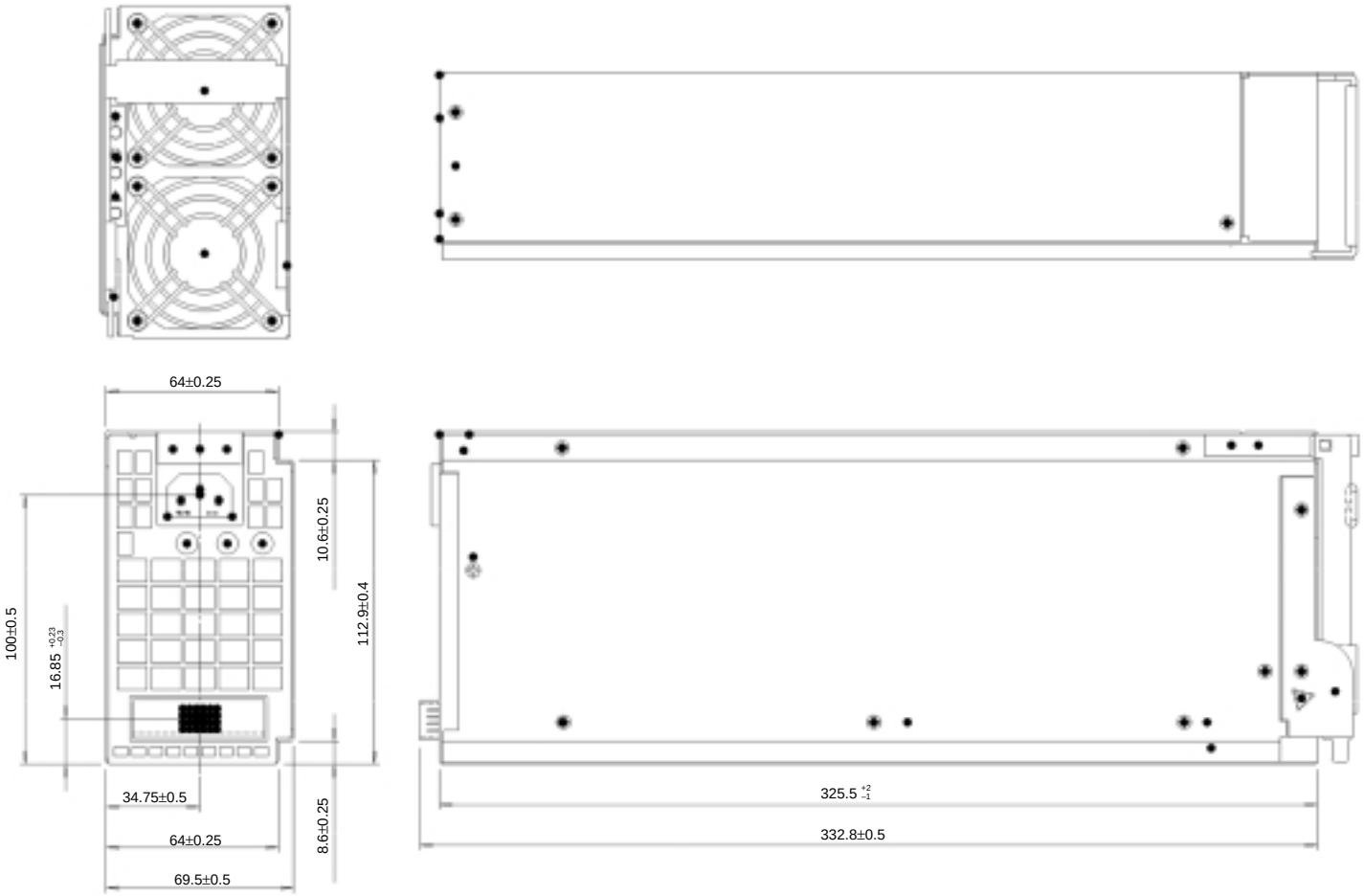
Operating Temperature	0˚C to 50˚C
Safety Approvals	UL60950, CSA C.22.2 No. 60950, VDE or TUV through CB Report, EN60950
EMI	CISPR 22, FCC, VCCI, each Class B

Mechanical

Size: 2.73" (W) x 5.02" (H) x 12.8"(D) [69.5mm (W) x 127.5mm (H) x 325mm (D)]

Weight: 7 Lbs [3.2kg]

Internal Fan Cooling



Note: This is Preliminary Information; future specifications may differ from this description.