

CHASSIS-MOUNT UNIVERSAL INPUT AC-DC ENCAPSULATED MODULAR POWER SUPPLIES 50 WATTS SINGLE OUTPUT HAS50S SERIES



FEATURES:

- CHASSIS-MOUNT AC/DC MODULAR POWER SUPPLIES
- UNIVERSAL AC INPUT RANGE
- COMPACT IN SIZE
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB.22 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac typical. Nominal: 115/230Vac.
Input Frequency: 47-63 Hz. (Nominal 50/60 Hz.)
Input Current: 0.77A @115Vac./0.39A @230Vac.
Inrush Current: 34A(peak) or 4.8(rms)@230Vac typical.
Input Fuse: Use **internal** fuse.
Dielectric Withstand: Meet IEC950.
 3,000Vac-Output/Input.
 1,500Vac-Input/GND.
 500Vac-Output/GND.
EMI: Meet CISPR PUB.22 / FCC Class B.
Hold-up time: 19 mS @115Vac, 80mS @230Vac typical.
Earth Leakage: Less than 0.52mA @230Vac.
Remote On/Off:
 ON(Enable)=Open.
 OFF(Disable)=Short.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart
Output Wattage: 50 Watts typical.
Line Regulation: Various with output voltage.
 0.1-0.5% typical.
Load Regulation: Various with output voltage.
 ±1.0-2.0% typical.
Noise & ripple: 1.0% typical peak to peak.
OVP: Built-in on main output.
Adjustability: Available at main output.
Overload Protection (OLP):
 Fully protected against output overload and short circuit.
 Typical 120-150% max. load.
 Consult the factory for special OLP setting.

GENERAL SPECIFICATION

Efficiency: 72%-85% typical various with output voltage.
Switching Frequency: 63K Hz.
Circuit Topology: Fixed Frequency Flyback circuit.
Transient Response: Peak deviation 200mV,
 Recovery time <3mSec. @ 25% step load change.
Case: Impact resistant thermo-plastic enclosure.
Safety Standard: EN60950/ UL1950 Class I or Class II.
Power Density: 4.1 Watts. / Cubic inch.
MTBF: 110,000Hrs. Mil Std 217, 25°C.

Operating Temperature: -10°C to +75°C range.
 -10°C to +50°C @ full load without derating.
 From +50°C derating linearly to half load @ +75°C
 (Refer to the Derating Chart).
Storage Temperature: -20°C to +85°C.
Temperature Coefficient: ± 0.03% /°C.
Cooling: Convection cooling for <+50°C @ full load.
 At least 100LFM moving air is recommended
 for full load >+50°C in a confined area.
Commercial Grade only.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load Regulation measured from Full-Load (F-L) to Half-Load (H-L) at nominal input and others loaded at half load.



In application

Due to requests in market and advances in technology, specifications subject to change without notice.

OUTPUT VOLTAGE/ CURRENT RATINGS CHART

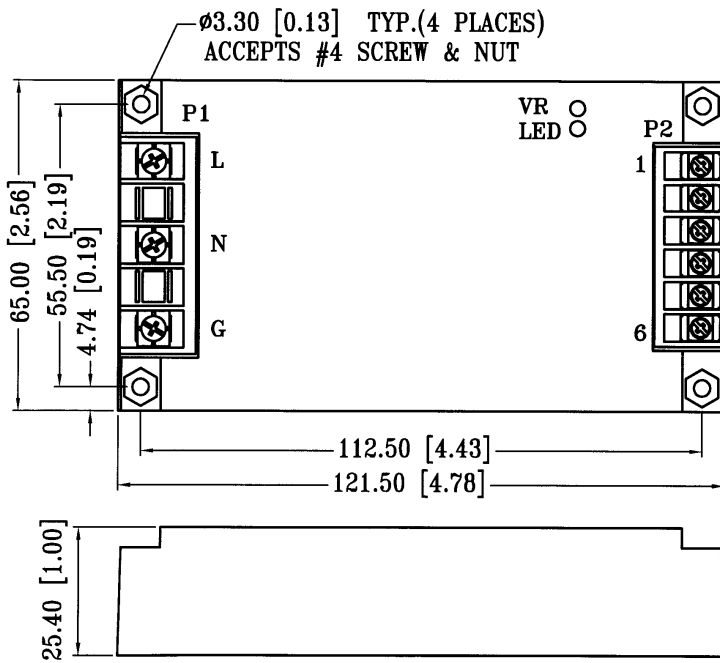
SINGLE OUTPUT

MODEL NO.	MAIN O/P VO1 @ ★	
	TYP.	VOLT.
HAS50-S033075	7.5A	+3.3V
HAS50-S050060	6.0A	+5.0V
HAS50-S120042	4.2A	+12.0V
HAS50-S150035	3.5A	+15.0V
HAS50-S240021	2.1A	+24.0V

Symbols: "★" OVP built-in. "@" Adjustable.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 378.0g (13.3 Oz.)



PIN ASSIGNMENT

PIN NO.	SINGLE O/P
P1-L	AC-L
P1-N	AC-N
P1-G	AC-G
P2-1	REMOTE ON/OFF
P2-2	NC
P2-3	+VO1
P2-4	+VO1
P2-5	DC COM
P2-6	DC COM

DERATING CHART

