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LPS 40

40 Watts

LPS 40 Series

Total Power	40 - 55 Watts
Input Voltages	85 - 264 VAC 120 - 370 VDC
# of Outputs	Single



SPECIAL FEATURES

- Universal input
- High efficiency
- Remote sense
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- Enclosure kit available (see page 56 or PowerFAX Doc. no 1025)

ENVIRONMENTAL

Operating temperature: 0° to 50°C ambient
derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3

Humidity: Operating: non-condensing
5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min, dwell at four major resonances 0.75 G peak 5 Hz to 500 Hz, operational

Storage temperature: -40° to 85°C

Temperature coefficient: $\pm 0.04\%$ per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditions

ELECTRICAL SPECIFICATIONS

Input

Input range	85-264 VAC 120-370 VDC
Frequency	47-440 Hz
Inrush current	<18 A peak @ 115 VAC; <36 A peak @ 230 VAC, cold start @ 25°C
Input current	1 A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI filter	FCC Class B conducted CISPR 22 Class B conducted EN55022 class B conducted VDE 0878 PT3 class B conducted
Safety ground leakage current	<0.5 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power	40 W for convection; 55 W with 30 CFM forced air
Adjustment range	-5, +10% minimum
Hold-up time	20 ms @40 W load, 115 VAC nominal
Overload protection	Short circuit protection on all outputs Case overload protected @ 110-145% above peak rating
Overvoltage protection	5 V output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output
Remote sense	Compensates for 0.5 V lead drop min. operate without remote sense connected Reverse connection protected.

SAFETY

VDE	0805/EN60950 (IEC950)	11774-3336-1241 (LC# 8493)
UL	UL1950	E132002
CSA	CSA 22.2-234 Level 3	LR53982C
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P94100375
BABT	EN60950/BS7002	PS/604781
CB	Certificate and report	1119,1125,1126,1127
CE	Mark (LVD)	

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INSTALLATION AND OPERATING INSTRUCTIONS FOR LPS45/LPS44/LPS43/LPS42

Revised Date: July 17, 1996

BEDIENUNGSANLEITUNG

To comply with the published safety standards, the following must be observed when using this power supply.

Um den zur Zeit gültigen Sicherheitsbestimmungen zu genügen, müssen die nachstehenden Maßnahmen beim Einsatz dieser Netzgeräte berücksichtigt werden.

- Maximum ambient temperature around the power supply must not exceed 50 deg C.
Das Netzgerät darf bis zu einer Umgebungstemperatur von max 50 grad C eingesetzt werden.
- The power supply is intended for use as a component part of other equipment. When installing the power supply and making input and output connections, the relevant safety standards e.g. IEC950/VDE 0805; EN60950; CSA Standard C22.2 No. 234 - M90; UL 1950 must be complied with, especially the requirements for creepage distances, clearances and distance through insulation between primary wiring and earth or secondary (SELV) wiring.
Ein Netzgerät ist ein Einbauteil in ein entsprechendes Gerät und bei Herstellung der elektrischen Verbindungen im und am Gerät sind die einschlägigen Bestimmungen wie z.B. IEC 950/VDE 0805; EN60950; CSA Standard C22.2 No. 234 - M90; UL 1950 zu beachten und einzuhalten, insbesondere die Anforderungen für Kriech- und Luftstrecken und Dicke der Isolation zwischen Primär- und Schutzleiter-Kreis und Primär-zum Sekundärstromkreis (SELV-Kreis).
- The output power taken from the supply must not exceed the rating given on the "Power Supply"
Die Ausgangsleistung darf die auf dem Netzgerät angegebenen Werte nicht übersteigen.
- For safe operation, the equipment must be protected by a fuse in the installation system.
Für einen geeigneten Schutz gegen einen Erdschluß muß das Gerät über eine Installations sicherung abgesichert werden.
- This power supply is suitable for different rated voltages. The switch over to the corresponding rated voltage which belongs to the specific appliance is done automatically in the appliance.
Dieses Netzgerät ist für verschiedene Nennspannung geeignet. Die Anpassung an die jeweilige Netzspannung, an die das Gerät angeschlossen ist, erfolgt automatisch im Gerät.
- The disconnection from line voltage is made by pulling the mains plug.
Die Trennung vom Netz erfolgt durch Ziehen des Netzsteckers
- The fuse should only be replaced by 2.5A, 250V, Type SP 0001.1008, Schurter or Type 21602.5 Littelfuse.
Die Sicherung darf nur durch den 2.5A, 250V, Typ SP 0001.1008, Schurter oder Typ 21602.5 Littelfuse ersetzt werden.
- The earth wire must be connected only to the earthing point which is marked with the earth symbol.
Der Schutzleiter muß an der mit dem Schutzleitersymbol bezeichneten Stelle angeschlossen werden.
- In case of failure, this Power Supply must be returned to Astec Authorized Service Station for Servicing to ensure Compliance with Safety requirement.
Das Netzteil muß an eine von Astec autorisierte Kundendienststelle gebracht werden, falls Teile im Fehlerfalle ausgetauscht werden müssen.
- When replacing the capacitor C6, the model label must be attached on the new capacitor.
Falls der kondensator C6 ausgetauscht wird, muß Gerätetypenschild am neuen kondensator angebracht werden.

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INSTALLATION AND OPERATING INSTRUCTIONS FOR LPS45/LPS44/LPS43/LPS42

Revised Date: October 1, 1996

11. The following additional items are for BABT approved unit only:
The Certified Equipment shall be installed in an enclosure such that:
 - a) Any uninsulated electrical connections to and within the enclosure, other than those connected to protective earth, are within a restricted access location as defined in EN60950:1992:clause 1.2.7.3;
 - b) Conductive parts of the enclosure, other than those connected to protective earth, shall have a minimum of 1.6mm creepage distance and 1.0mm clearance distance from any uninsulated electrical connection to or within the relevant apparatus;
 - c) Conductive parts of the enclosure, other than those connected to protective earth, shall have a minimum of 5mm creepage distance and 4mm clearance distance from any parts conductively connected to an excessive voltage as defined in EN60950:1992:clause 1.2.8.3;
 - d) A protective earth is provided for safety in accordance with EN60950:1992 Clause 2.5.

A mechanical and fire enclosure is provided, meeting the requirements of EN60950:1992 and I&2: clauses 4.2.3; 4.2.4; 4.3.14 and 4.4.5
12. Hazardous voltages exist in the primary circuits. Disconnect power supply before servicing.
Gefährliche Spannung im Primärkreis. Vor der Reparatur die Verbindung zum Netz entfernen.
13. This power supply is CE marked following the provisions of the Low Voltage Directive, 73/23/EEC.
CE
14. Beware of internal lethal voltages due to charged capacitors even after AC input is disconnected. A Minimum of 5 minutes should be allowed after AC input power is disconnected before handling.
Vorsicht mit tödlichen strom innerhmb diesem geraht wegengeladenen capacitors, selbst wenn AC strom abgestellt ist. Fünf (5) minuten warten zum anfassen.

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INSTALLATION AND OPERATING INSTRUCTIONS FOR LPS45/LPS44/LPS43/LPS42

CUSTOMER MOUNTING 

