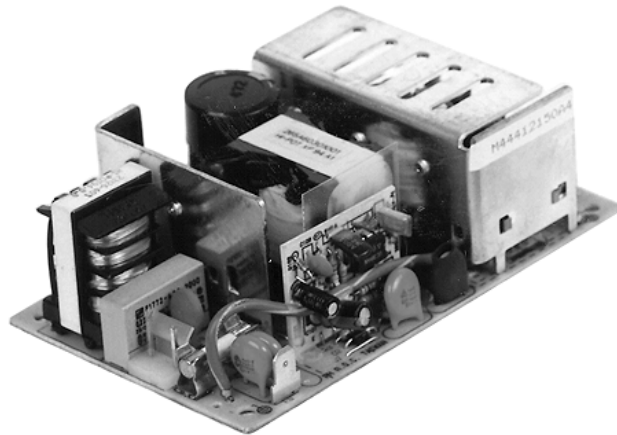


**60 W  
AC/DC  
OPEN  
FRAME**

# 60 Watt Power

**PSA 60 Universal-Input Compact-Serie**



**PHOTON**

## Besondere Merkmale Features

|                              |                                    |
|------------------------------|------------------------------------|
| Mehrfachausgang              | Multiple output                    |
| Universaleingang             | Universal input                    |
| Hoher Wirkungsgrad           | High efficiency                    |
| 100% Burn-In                 | 100% burn in                       |
| Kompakter Aufbau             | Small low profile package          |
| Überlast- und kurzschlußfest | Overload, short circuit protection |

## Anwendung Application

|                       |                        |
|-----------------------|------------------------|
| Externe Laufwerke     | External HDD           |
| Rechnersysteme        | Computer applications  |
| MSR                   | Control equipment      |
| Mikroprozessorsysteme | Microprocessor systems |

## Technische Daten Specification

(25°C Umgebungstemperatur) at 25 °C ambient temperature

## Eingangsdaten Input Specifications

|                         |                               |                             |
|-------------------------|-------------------------------|-----------------------------|
| Eingangsspannung        | Input voltages                | 90...260 VAC                |
| Eingangsfrequenz        | Input frequency               | 47...63 Hz                  |
| Funkentstörung          | Conducted interference        | FCC class B /<br>VDE 0871 B |
| Netzausfallüberbrückung | Hold-up time, nom. conditions | 16-20ms                     |
| Einschaltstromstoß      | Inrush current                | <15A/115 V, <30/230 V       |

## Ausgangsdaten Output Specifications

|                  |                     |  |
|------------------|---------------------|--|
| Leistung         | Power               | 60 Watt at convection cooling<br>80 Watt at air cooling 20 CFM |
| Wirkungsgrad     | Efficiency          | typ. 70%   |
| Schaltfrequenz   | Switching frequency | 50 kHz   |
| Regelabweichung  | Regulation          |  |
| Hauptausgang     | Main output         | <1%  |
| Kreuzregelung    | Cross               | <5%  |
| Ausregelzeit ±2% | Recovery time ±2%   | max. 1 ms  |
| Restwelligkeit   | Ripple and noise    | <1% max.   |

## Allgemeine Daten General Specifications

|                            |                        |                                      |
|----------------------------|------------------------|--------------------------------------|
| Betriebstemperatur         | Operating temp.        | 0°C...70°C                           |
| Lagertemperatur            | Storage temperature    | -25°C...+85°C                        |
| Leistungsrücknahme ab 45°C | Deating above 45°C     | 2.5% / K                             |
| Temperaturkoeffizient      | Temp. coefficient      | 0.04% / K                            |
| Überspannungsschutz        | Overvoltage protection | 110...130% of mainoutp.              |
| Leistungsbegrenzung        | Power limitation       | 130% total power, foldback           |
| MTBF                       | MTBF                   | >100,000 h @25°C, MIL HDBK 217E      |
| Zulassungsbestimmungen     | Safety requirements    | VDE, EN 60950, UL 1950, CSA 22.2-950 |

# 60 Watt Power

## PSA 60 Universal-Input Compact-Serie

# 60 W AC/DC OPEN FRAME

### Bestell-Information / Order Information

| Modell     | Ausgang Output | Last/Load |       | 20CFM        | Ripple P-P | Regulation | Output Pins |
|------------|----------------|-----------|-------|--------------|------------|------------|-------------|
|            |                | Min.      | Max.  |              |            |            |             |
| PSA-60-105 | +5 V           | 0.0A      | 10.0A | 10.0A (12.0) | 50mV       | ±2%        | 1, 2, 3     |
| PSA-60-112 | +12V           | 0.0A      | 5.0A  | 6.6A (8.3)   | 120mV      | ±2%        | 1, 2, 3     |
| PSA-60-124 | +24V           | 0.0A      | 2.5A  | 3.3A (4.2)   | 240mV      | ±2%        | 1, 2, 3     |
| PSA-60-203 | +5 V           | 1.0A      | 4.0A  | 6.0A (8.0)   | 50 mV      | ±2%        | 2, 3        |
|            | +12V           | 0.3A      | 3.5A  | 4.5A (8.0)   | 120mV      | ±5%        | 1           |
| PSA-60-301 | +5 V           | 1.0A      | 6.0A  | 8.0A (10.0)  | 50mV       | ±2%        | 2, 3        |
|            | -12V           | 0.0A      | 0.3A  | 0.5A (1.5)   | 120mV      | ±5%        | 6           |
|            | +12V           | 0.3A      | 2.2A  | 3.0A (6.0)   | 120mV      | ±5%        | 1           |
| PSA-60-304 | +5 V           | 1.0A      | 6.0A  | 8.0A         | 50mV       | ±2%        | 2, 3        |
|            | -15V           | 0.0A      | 0.5A  | 0.5A         | 150mV      | ±5%        | 6           |
|            | +15V           | 0.3A      | 1.5A  | 2.0A         | 150mV      | ±5%        | 1           |

Andere Typen und Spannungen auf Anfrage • Other models and configurations on request.

### Vermerk

- 1-Maximale Dauerleistung darf 60 W ohne Fremdkühlung und 80 W mit 20 CFM Fremdkühlung nicht übersteigen.
- 2-Peakstrom weniger als 30 s, mit einer relativen Dauer von weniger als 10%
- 3-Restwelligkeit, bei 20 MHz Bandbreite unter Verwendung einer 10 µF Kapazität parallel zu einem 0,1 µF Keramikkondensator sowie einer Spule mit 10 Windungen gemessen.
- 4-Einbau des Netzteils muß gemäß Richtlinien EN 60950 erfolgen.

### Remarks

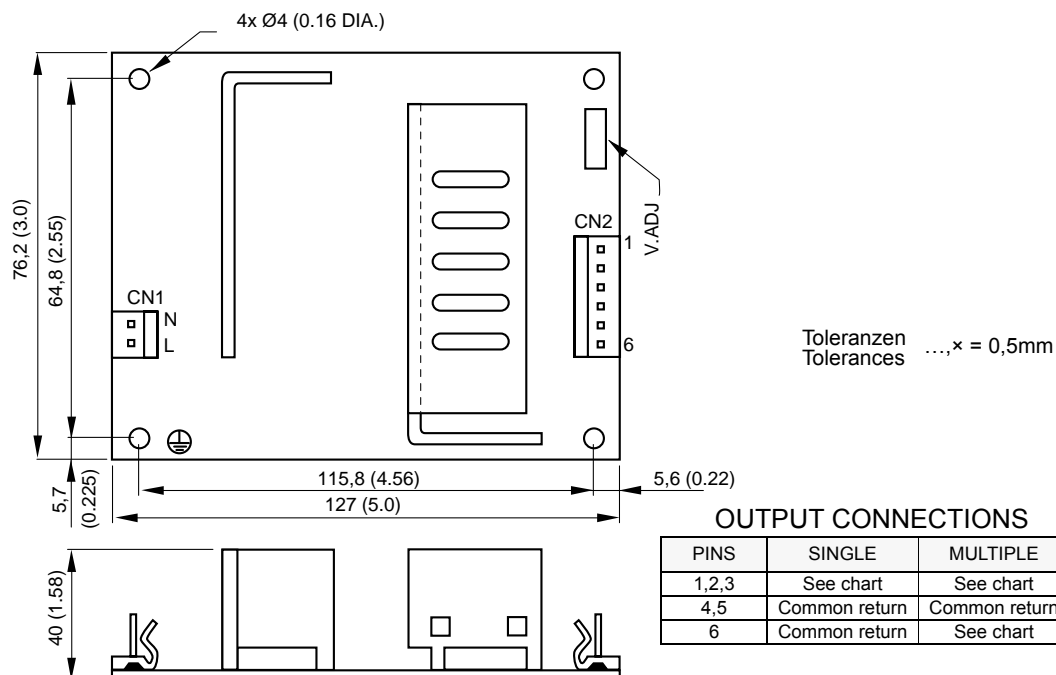
- 1-The maximum continuous output power must not exceed 60 W with convection cooling and 80 W with 20 CFM air cooling.
- 2-Peak current lasting less than 30 s with duty cycle less than 10%.
- 3-Ripple and noise is measured at 20 MHz bandwidth limited by using a 10 in twisted wire terminated with a 10 µF cap. in parallel with a 0.1 µF ceramic cap.
- 4-Installation must meet the requirements of EN 60950.

### Mechanik

### Mechanical

|         |        |                                   |
|---------|--------|-----------------------------------|
| L×B×H   | L×W×H  | 127 × 76 × 40 mm/ 5 × 3 × 1.58 in |
| Gewicht | Weight | 0,35 Kg / 0.6 lbs                 |

### PIN-Belegung und Zeichnung / Pin Assignments & Drawing, mm (inch)



CN1 & CN2: Molex 2630 or equivalent