

MZC20 SERIES

20 Watts

KEY FEATURES

- Switching Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC
- Regulated Output
- Low Ripple and Low Noise
- Isolation Class II
- Low Standby <0.1W
- Small Size
- CE, CB, UL, cUL Approvals
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

| Model No. | | MZC20-12S | MZC20-24S |
|------------------------|--------------------------------------|---|-----------|
| Max Output Wattage (W) | | 20W | |
| Input | Voltage | 90-264 VAC or 120-370 VDC, "N" to DC "+" ; "L" to DC "-" | |
| | Frequency (Hz) | 47-440 Hz | |
| | Current (Full load) | 440 mA max. (115 VAC) / 287 mA max. (230 VAC) | |
| | Leakage Current | < 0.1mA / 264 VAC (Touch Current) | |
| | Inrush Current (<2ms, Cold Start) | 20 A max. (115 VAC) / 40 A max. (230 VAC) | |
| Output | Voltage (V.DC.) | 12V | 24V |
| | Voltage Accuracy | ±2% | |
| | Current (mA) max | 1667 | 833 |
| | Maximum Capacitive Load (at 230 VAC) | 1500uF | 470uF |
| | Line Regulation (LL-HL) (typ.) | ±0.5% | |
| | Load Regulation (5-100%) (typ.) | ±1% | |
| | Ripple & Noise (Full load) | 150 mVp-p | 240 mVp-p |
| | Efficiency (at 230 VAC) | 83% | 82% |
| | Hold-up Time(typ) | 6 ms (115VAC) / 46ms (230VAC) | |
| Protection | Over Power Protection | Hiccup technique, auto-recovery | |
| | Over Voltage Protection | Zener diode clamp | |
| | Short Circuit Protection | Hiccup mode (automatic recovery) | |
| Isolation | Input-Output (V.AC) | 4000V | |
| Environment | Operating Temperature | -40°C...+80°C (Case Temperature max. +95°C) | |
| | Storage Temperature | -40°C...+90°C | |
| | Temperature Coefficient | ±0.05%/°C | |
| | Altitude During Operation | 5000m | |
| | Humidity | up to 95% RH | |
| | MTBF | >350,000 h @ 25°C (MIL-HDBK-217F) | |
| | Atmospheric Pressure | 540 hPa to 1060 hPa | |
| Physical | Dimensions (L x W x H) | 2.07 x 1.08 x 0.93 Inches (52.5 x 27.5 x 23.5 mm) Tolerance ±0.5 mm | |
| | Case Material | Plastic resin (flammability to UL 94V-0) | |
| | Weight | 52 g | |
| | Cooling Method | Free air convection | |



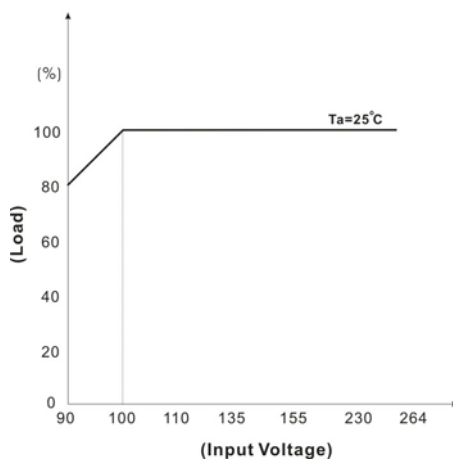
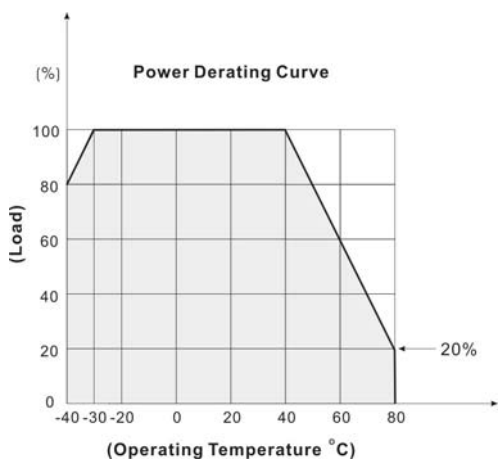
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DERATING



SCREW TERMINAL

MZC20-A2



| PIN# | Single |
|------|------------|
| 1 | NO CONNECT |
| 2 | AC IN (L) |
| 3 | AC IN (N) |
| 4 | NO CONNECT |
| 5 | +DC OUT |
| 6 | -DC OUT |
| 7 | NO CONNECT |
| 8 | NO CONNECT |

