

# HUP472/82UDX

# (RoHS Compliant)

## 470 Watts TFX12V Switching Power Supply

#### **Features**

- · Complied with TFX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- · High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1, FIMKO EN60950-1, TUV EN60950-1 (CB Report), CE

#### **Input Characteristics**

**Input Range:** 90 ~ 264Vac (RMS), Full Range Input

Frequency: 47 ~ 63Hz

Input Current: Max 4A (RMS) @ 115Vac,2A (RMS) @ 230Vac

Inrush Current: No damage

#### **Output Characteristics**

|       | MINIMUM<br>LOAD | NORMAL<br>LOAD | MAXIMUM<br>LOAD | LOAD<br>REG. | LINE<br>REG. | RIPPLE & NOISE |
|-------|-----------------|----------------|-----------------|--------------|--------------|----------------|
| +3.3V | 0.1A            | 7.0A           | 14A             | ±5%          | ±1%          | 50mV P-P       |
| +5V   | 0.2A            | 7.5A           | 15A             | ±5%          | ±1%          | 50mV P-P       |
| +12V1 | 0.1A            | 5.5A           | 13A             | ±5%          | ±1%          | 120mV P-P      |
| +12V2 | 0.5A            | 4.0A           | 13A             | ±5%          | ±1%          | 120mV P-P      |
| -12V  | 0A              | 0.15A          | 0.3A            | ±10%         | ±2%          | 120mV P-P      |
| +5Vsb | 0A              | 1.0A           | 2.0A            | ±5%          | ±1%          | 50mV P-P       |

\*+3.3V and +5V total output not exceed 103W

When +5V is loaded to 15A, then +3.3V maximum load is 8.48A. When +3.3V is loaded to 14A, then +5V maximum load is 11.36A.

\*+12V1 & +12V2 total output not exceed 204W

Sparkle Power Inc. Main Office

1000 Rock Avenue San Jose, CA 95131 TEL: 408-519-8888 FAX: 408-519-9999

E-MAIL: <u>info@sparklepower.com</u>





### **Specification**

Temperature Range: Operating: 0°C ~ +35°C; storage & shipping: -40°C ~ +70°C

• **Humidity:**  $5 \sim 85\%$  on operating,  $5 \sim 95\%$  on storage

 Dielectric Withstand: Primary frame ground 1800V AC for 1 second

• **Efficiency**: 82% minimum

• Rise time: Less than 20ms

• Hold-up Time: 16ms minimum at nominal input voltage

 Power Good Signal: Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)

• Leakage Current: Less than 3.5mA.

MTBF: 100,000 hours on maximum load at +25°C

• **Dimensions** (LxWxH): 175x85x70mm / 6.9x3.4x2.8inch

Sparkle Power Inc. Los Angeles Office 17071 Green Drive

City of Industry, CA 91745 TEL: 626-839-7180 FAX: 626-839-3395