

### 1) DC INPUT

Description	Min.	Nominal	Max.
Input Voltage	36	48	72
Input Current	17.5A MAX. AT 36V DC INPUT, FULL LOAD CONDITION.		
Input Protection	CERAMIC FUSE, 20A/250V.		



### 2) DC OUTPUT

OUTPUT VOLTAGE	V1	V2	V3	V4	V5	V6
	+3.3V	+5V	+12V	-5V	-12V	+5Vsb
MIN. LOAD	0.5 A	3 A	1 A	0 A	0 A	0 A
**MAX. LOAD	*28 A	*45 A	20 A	8 A	2.5 A	1.5 A
***REGULATION	±5%	+5/-4%	±6%	±5%	+10/-8%	±5%
RIPPLE & NOISE (MAX.)	50mV	50mV	120mV	70mV	150mV	50mV
OVP	+3.8V~+4.6V	+5.8V~+7.0V	+13.8V~+17.5V	---	---	---
EFFICIENCY (TYP.)	68%					

Note: \* +3.3V & +5V TOTAL OUTPUT MAXIMUM 225 WATTS.

\*\* INPUT VOLTAGE 36V ~ 39V : TOTAL OUTPUT MAXIMUM 360 WATTS.

INPUT VOLTAGE 40V ~ 72V : TOTAL OUTPUT MAXIMUM 425 WATTS.

\*\*\* THE OUTPUT VOLTAGE LOAD REGULATION IS LESS THAN THE VALUES IN THE ABOVE TABLE BY CHANGING EACH OUTPUT LOAD ±40% FROM 60% RATED OF LOAD, AND KEEP THE OTHER OUTPUTS AT 60% OF RATED LOAD.

### 3) ELECTRONIC CHARACTERISTICS:

3.1) **RISE TIME:** 20mS MAX.

3.2) **OVERLOAD PROTECTION:** WHEN OUTPUT POWER OVER 105% TO 150% OF RATED LOAD, THE POWER SUPPLY WILL SHUTDOWN.

3.3) **INPUT VOLTAGE PROTECTION SHUT DOWN:**  
UNDER VOLTAGE PROTECTION : < 32V ~ 36V  
OVER VOLTAGE PROTECTION : > 72V ~ 78 V

3.4) **SHORT CIRCUIT PROTECTION:** WHEN OUTPUT SHORT TO GROUND, THE POWER SUPPLY WILL SHUTDOWN.

3.5) **POWER GOOD SIGNAL:** POWER ON WITHIN 100---500ms, HIGH LEVEL TTL SIGNAL RELEASE.

3.6) **PS-ON INPUT SIGNAL:** THE PS-ON TTL SIGNAL SWITCHES ON/OFF THE PS. THE INPUT IS DUE TO A 30K PULL UP RESISTOR CONNECTED TO +5VSB. IF THE INPUT IS OPEN (DEFAULT)THE PS IS SWITCHED OFF.

LOGIC STATE	FUNCTION	INPUT VOLTAGE	INPUT CURRENT
PS-ON =HI	P/S IS SWITCHED OFF	PS-ON >2V	
PS-ON =LOW	P/S IS SWITCHED ON	PS-ON <0.8V	MAX-3mA@0V

#### **4) COOLING:**

FORCED AIRFLOW COOLING WITH A **36 CFM** (MIN.) DC FAN.

#### **5) SAFETY REQUIREMENTS**

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS

- 5-1) UL 1950 3rd EDITION (1998) APPROVED. (E 129733)
- 5-2) CSA C22.2 NO.950 3rd EDITION (1998) APPROVED BY UL.
- 5-3) TUV EN 60950: 1992+A1+A2+A3+A4+A11 (1997) APPROVED. (R 9853880)
- 5-4) IEC 60950:1991+A1+A2+A3+A4 (1996) APPROVED.
- 5-5) EMKO-TSE (74-SEC) 207/94 APPROVED.

#### **6) EMC:**

THIS PRODUCT IS DESIGN TO COMPLY WITH THE FOLLOWING STANDARDS:

##### **6-1) EMI:**

- (1). **FCC CFR 47 PART 15 SUBPART J , CLASS B LIMIT**
- (2). **EN 50081-1:1997 EMISSION STANDARD**  
EN 55022: 1997 CLASS B LIMIT
- (3). **CNS 13438 CLASS B.**

##### **6-2) EMS:**

- (1). **EN 50082-1 (1997) IMMUNITY STANDARD:**
  - EN 61000-4-2 : 1995 ELECTROSTATIC DISCHARGE STANDARD.
  - EN 61000-4-3 : 1996 RADIATED RF STANDARD.
  - EN 61000-4-4 : 1995 FAST TRANSIENT/BURST STANDARD
  - EN 61000-4-5 : 1995 LIGHTNING SURGE STANDARD
  - EN 61000-4-6 : 1996 CONDUCTED RF STANDARD.
  - EN 61000-4-8 : 1993 POWER FREQ. MAG. FILELD STANDARD.

#### **7) PHYSICAL ENVIRONMENT (AMBIENT):**

##### **7-1) TEMPERATURE RANGE:**

OPERATING TEMPERATURE RANGE : 0 ~ 70°C  
DERATING FACTOR 45°C ~ 70°C : 2.0%/°C  
STORAGE -10 TO +75 °C

##### **7.2). HUMIDITY:**

OPERATION 20% TO 85% RH. (NON CONDENSING)  
STORAGE AND SHIPPING 10% TO 95% RH. (NON CONDENSING)

#### **8).M.T.B.F.:**

**178K** HOURS APPROXIMATELY, ACCORDING TO MIL-HDBK-217F AT 25°C ENVIRONMENT.

#### **9) MECHANICAL DATA:**

OUTLINE DIMENSION : **W 150 ×D 140 ×H 86 mm**

