SHENZHEN XINJUKANG TECHNOLOGY CO.,LTD

POWER ADAPTER SPECIFICATION

XJK180W Series

FEATURES

Certified IEC 62382-1
Meet Energy Efficiency DOE Level VI
Meet COC Version 5 Tier2
High Reliability
Over Temperature Protection
Over Voltage Protection
Over Current Protection
With PFC Circuit

SAFETY STANDARD APPROVAL

DESCRIPTION

This Power Adapter is with 180watt power, intend to use for IPC systems, rugged system, POS system, monitor, printer and PoE application, that has a high wattage demands. This ac to dc adapter operates at Variable input voltage range: AC 90V to AC 265V. The Safety Accord with IEC62368，EN62368，UL62368，GB4943.

INPUT SPECIFICAITONS

Input Voltage:	90-265VAC
Input Frequency:	47Hz-63Hz
Input Current:	full load ≤ 1.2A
No Load Power Consumption:	≤ 0.21W
Touch Current:	≤ 0.25mA

OUTPUT SPECIFICAITONS

Output Voltage:	24VAC
Output Current:	7.5A
Protection	
Over Voltage:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed rated volts.
Short Circuit & Over Current:	When an internal fault occurs, or an external fault is applied to the power adapter, such that an overload or short circuit is applied to the output, the power adapter shall shut down and enter auto-recovery mode.
Over temperature:	The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal state by AC reset.
Environment	
Working TEMP:	0~70℃ (> 50℃ de-rating)
Storage TEMP:	-30℃ ~ +85℃
Working Humidity:	30% ----- 95%
Storage Humidity:	30% ----- 98%

OUTPUT SPECIFICAITONS

Power Factor:	115Vac, 230Vac / full load ≥ 0.9
Efficiency:	DOE≥88% COC≥89%
Time sequence:	See Switch On/Off graph
Inrush current:	100Vac, 240Vac/full load, with 25℃ environment TEMP, Max 30A
Operating altitude:	under 5000 meters
MTBF:	100Vac, 240Vac/full load, 500,000 hours at 27℃, standard MIL-HDBK-217F
EMC Performance	
EN55032:	Class B conducted, Class B radiated
FCC Part5:	Class B conducted, Class B radiated
EN61000-3-2:	Class A
EN61000-3-3:	Meet regulation
EN61000-4-2:	Class B
EN61000-4-3:	80 ~1000 MHz,3V/m, 80 % AM(1kHz), criterion A
EN61000-4-4:	1kV input, air 101.5kPA, meet criterion B
EN61000-4-8:	0.15 ~ 80 MHz, 1A/m, meet criterion A

POWER ADAPTER SPECIFICATION

OUTPUT CHARACTERISTICS

Static Output Characteristics <Vo & R+N>:

Output	Rated Load/额定负载		Output Range	R+N	Remark
Rate	Min. Load	Max. Load	输出电压范围	纹波与噪声	备 注
24V	0.0A	7.5A	22.8V ~25.2V	300mVp-p	

Ripple & Noise:
Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1Uf/50V ceramic capacitor and a 47Uf/50V electrolysis capacitor. (test under the condition of rated input and rated output)

Line/ Load Regulation:

Output	Load Condition/负载条件		Line Regulation	Load Regulation	Remark
Rate	Min. Load	Max. Load	线性调整率	负载调整率	备 注
+24V	0.0A	7.5A	±1%	±5%	

Turn - on Delay Time:
3S max. @ 100Vac to 230Vac input & Full load

Hold-up Time:
5mS min. @ Full load &115Vac/ 60Hz input turn off at worst case
10mS min. @ Full load &230Vac/ 50Hz input turn off at worst case

Rise Time:
20mS max. @ Rated load

Fall Time:
20mS max. @ Full load

Output Overshoot / Undershoot:
10% max. When the power on or off

Output Load Transient Response:
Output voltage within 22.8V ~25.2V for load step from 25% to 50% to 25%,50% to 75% to 50% R/S: 0.25A/uS, Transient Response Recovery Time :200uS，Dynamic response overshoot 10%

RELIABILITY REQUIRMENTS

Burn-in：
The power supply shall be burn-in for 4 Hours under normal input and 80% rated load at 40°C ± 5°C

SAFETY STANDARDS

Dielectric Strength(Hi-pot):
Primary to Secondary: 1500Vac / 10mAMax / 60 second
Primary to Ground:1500Vac/10 mA Max /60second
Secondary to Ground:500Vdc 10mA Max / 60 second

Leakage Current:
3.5mAmax

Insulation Resistance:
Input - Output≥10MΩ@500Vdc

Regulatory Standards

Type/安规	Country/国家	Standard/标准
CE	European	EN60335-2-29
ETL	USA	UL1012
CQC	China	GB4706.1-2005

MECHANICAL & AC CONNECTOR SPECIFICATION