



**Electrical
Specification for:**

**eFO600-224 Series
Wide range AC/DC Single Output 600W Power
Supply**

**Telkooor Part
Number:**

900-5124-0000

CUSTOMER	SIZE	CAGE CODE	S5417	DWG. NO.	5124-DOC1-10	REV	B1	
GENERAL	SCALE		RELEASE DATE	08/11/2015	SHEET	1	OF	6

REVISION HISTORY					
Rev Level	Rev Date	Change Made	Reason for Change	Approved By	Effective
A	22/06/2015	RELEASE		S. Sadot	22/06/2015
B	08/11/2015	Update operating temp. and storage temp.	To withstand with customer requirements	S. Sadot	08/11/2015
B1	15/01/2017	Add operation Frequency Up to 435 Hz	Update Spec. Following operation tests .	S. Sadot	15/01/2017

Approvals		
	Name	Date
Written by:	S. Sadot	22/06/2015
Engineering:	S. Sadot	22/06/2015
Sales & Marketing:	H. Liber	22/06/2015

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Input:

Input Voltage: 85 - 264Vac
 Frequency: 47 - 435Hz
 Inrush Current: 50A maximum, cold start at 25°C
 Efficiency: 90% typical at 230Vac, full load
 85% typical at 115Vac, full load
 Power Factor: 0.96 typical at 230Vac, full load
 0.99 typical at 115Vac, full load
 Input Protection: Internal Line Fuse: IEC type 10A 250VAC SLO BLOW
 Brown – Out: 75 to 300Vac
 Leakage Current < 0.5mA @ 50/60Hz, 264Vac

Output Voltages & Currents:

Output	Output Voltage	Maximum Amps With 24CFM Forced Air	Peak Load
V1	+24V	25A	26A

Output:

Maximum Power 500W for free convection base plate cooling , base plate Temp +75°C ,
 Ambient Temp +85°C, 600W with forced air-cooling (24CFM min.)
 Adjustment range ±5%
 Auxiliary standby output - Option N/A
 Line Regulation: ±1%
 Load Regulation: Less than ±0.5% for load changes from zero to full load.
 Ripple & Noise 0.5% Pk-Pk Max, 20Mhz BW Measured on 120uF tantalum in parallel with a 0.1uF
 ceramic capacitor on output connector.
 Initial Set Point Tolerance: Vout ± 0.5%
 Minimum Load 1 Amp.
 Overshoot & Undershoot: Less than 0.5% at turn ON and OFF
 Transient Load Response: ±5% Max. Deviation for load change of 25% to 75%, at slew rate of 1A/µsec,
 recovery time less then 500uSec
 Turn On Delay: 1 sec. Maximum
 Hold-up Time: 16mSec minimum.
 Turn-On Rise Time: 50mSec Typical
 Over-current Protection: 110 to 135% of I Max, constant current limit, automatic recovery.
 Over-voltage Protection: 120 to 135% above nominal (Latched Shut-Down) AC input must recycle to re-start.
 Temperature Protection: Shutdown due to excessive internal temperature 95± 5°C automatic recovery.
 Current Share: YES, Built In O-ring diode / FET
 Remote Sense Compensates for 0.5V lead drop min. Will operate without remote sense connected.

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J1 - INPUT CONNECTOR PIN ASSIGNMENT

Pin	Description
1	GROUND
3	NEUTRAL
5	LINE

J8 - OUTPUT 32Vdc Terminal Block

Pin	Signal Name.
1	24V OUTPUT RTN
2	24V OUTPUT RTN
3	24V
4	24V

J3 - OUTPUT CONNECTOR PIN ASSIGNMENT

Pin	Signal Name.	Description
1	GA-0	N/A, I2C OPTION
2	GA-1	N/A , I2C OPTION
3	GA-2	N/A, I2C OPTION
4	CURRENT SHARE	Current Share Signal
5	DC FAIL HIGH	Option
6	DC FAIL LOW	TTL Level - Active Low
7	P- SENSE	+ Remote Sense (option)
8	N - SENSE	- Remote Sense (option)
9	IPMI - SDA	N/A , Option Serial Data I2C
10	IPMI - SCL	N/A , Option Serial Clock I2C
11	External 5V	N/A , Option External 5V for I2C
12	INHIBIT	Active LOW
13	AC_FAIL	Option
14	RTN SIGNAL	N/A
15	5V_AUX	N/A
16	5V-AUX RTN	N/A

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