

ESFG-750 Series

750 Watt Single Output Enclosed Type AC-DC Power Supply with PFC

Features

- 1.65" Low Profile, High Power Density
- Universal Input : 90 ~ 264Vac
- Active PFC Meets EN61000-3-2
- EMI Meets CISPR/FCC Class B
- High Efficiency over 91% Typical
- Remote Voltage Sense
- Fan Speed Control with Temperature
- +5V Stand-by output
- Remote Voltage Sense
- DC OK Signal (Power Good, Logic High)
- PS ON/OFF Remote Control



NOTE:

- 1: Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
- 2: Voltage accuracy is set at 50% rated load and 25°C Ta.
- 3: Line regulation is measured from High Line to Low Line with rated load.
- 4: Load regulation is measured at 60%±40% rated load.
- 5: Dimensions tolerance : +/- 1mm.

SPECIFICATIONS

• Input Characteristics		• Output Characteristics	
AC Input Voltage	90 ~ 264Vac	Total Rated Output Power	750W
Frequency	47 to 63Hz	Remote Voltage sense	Compensates for wire voltage drop
Inrush Current	50A Max.	Adjustment Range on Vout	+10%, -5%
EMI	CISPR/FCC Class B	Hold-up Time	20ms typ.
Isolation	Input to output = 3000Vdc	Over Voltage Protection	Recycle AC input to restart
Leakage Current/240Vac	3.5mA max.	Over Temperature Protection	Auto Recovery
• Environmental Characteristics		Short Circuit Protection	Auto Recovery



Operating Temperature	-10 ~ 65°C		
	40~65°C with 2.5%/°C derating PSU will be in thermal protection for exceeding the rated power output or the operating temperature		
Storage Temperature	-40 ~ 85°C		
• Mechanical Outline			
Dimensions*5	280mmx101.5mmx41.9mm		

TABLE

Model	Output Voltage	Output Current (A)		Ripple & Noise*1	Voltage Accuracy*2	Line Reg. *3	Voltage Adj.range	Load Reg. *4	Efficiency (Typical)
		Rated	Min.						
Main Output Voltage									
ESFG-750-12	+12V	62.5	0.0	100mVp-p	±2.0%	±0.5%	11.4~13.2	±1%	TBD
ESFG-750-15	+15V	50.0	0.0	100mVp-p	±2.0%	±0.5%	14.3~16.5	±1%	TBD
ESFG-750-24	+24V	31.2	0.0	150mVp-p	±2.0%	±0.5%	22.8~26.4	±1%	TBD
ESFG-750-36	+36V	20.8	0.0	240mVp-p	±2.0%	±0.5%	34.2~39.6	±1%	92%
ESFG-750-48	+48V	15.6	0.0	240mVp-p	±2.0%	±0.5%	45.6~52.8	±1%	92%
Standby Output Voltage									
All	+5.0V	1.0	0.0	100mVp-p	±2.0%	----	----		

Typical @25°C, 230Vac and 60% rated load, unless otherwise specified.



DRAWINGS: (Preliminary)

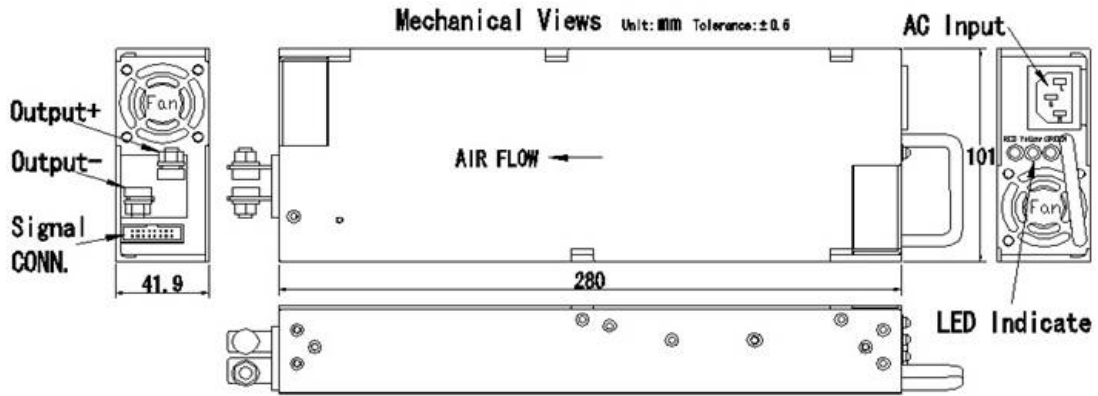
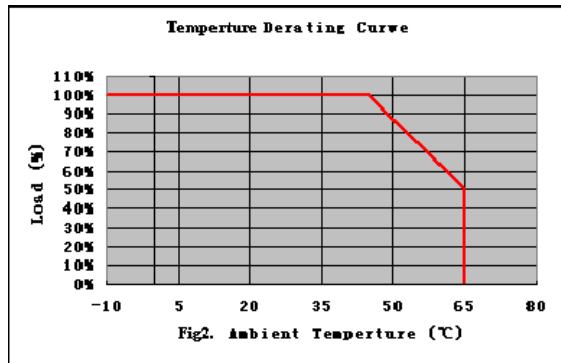


Fig1. Mechanical Outline

Signal Pin Assignment

PIN CONNECTION			
1	RS-	9	ENABLE
2	ACOK	10	I2C-SDA(NC)
3	+5VSB	11	GROUND
4	ADRO(NC)	12	TRIM
5	QTPW	13	PGOOD
6	GROUND	14	+5VSB
7	I2C-SCL(NC)	15	IShore(NC)
8	ADRI(NC)	16	RS+



Note: Current Share/I2C Communication not available now.

LED Indicators

Power Supply Condition	AC LED	PWGOD LED	Fail LED
	(Green)	(Green)	(Red)
No AC power to PSU	OFF	OFF	OFF
Power supply DC outputs ON and OK	ON	ON	OFF
AC OK , Power supply failure	ON	OFF	ON

