



# ESFG-350 Series

350 Watt Single Output AC-DC MODULES with PFC

## Features

- Universal Input : 90 ~ 264Vac
- Active PFC Meets EN61000-3-2
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency at 90% Typical
- Protections: Short circuit/Over load/Over voltage/Over temperature
- Free air convection for 300W and 350W with 23.5CFM forced air.
- Remote Voltage Sense
- U-bracket low profile: 38mm
- 3 years warranty.



## SPECIFICATIONS

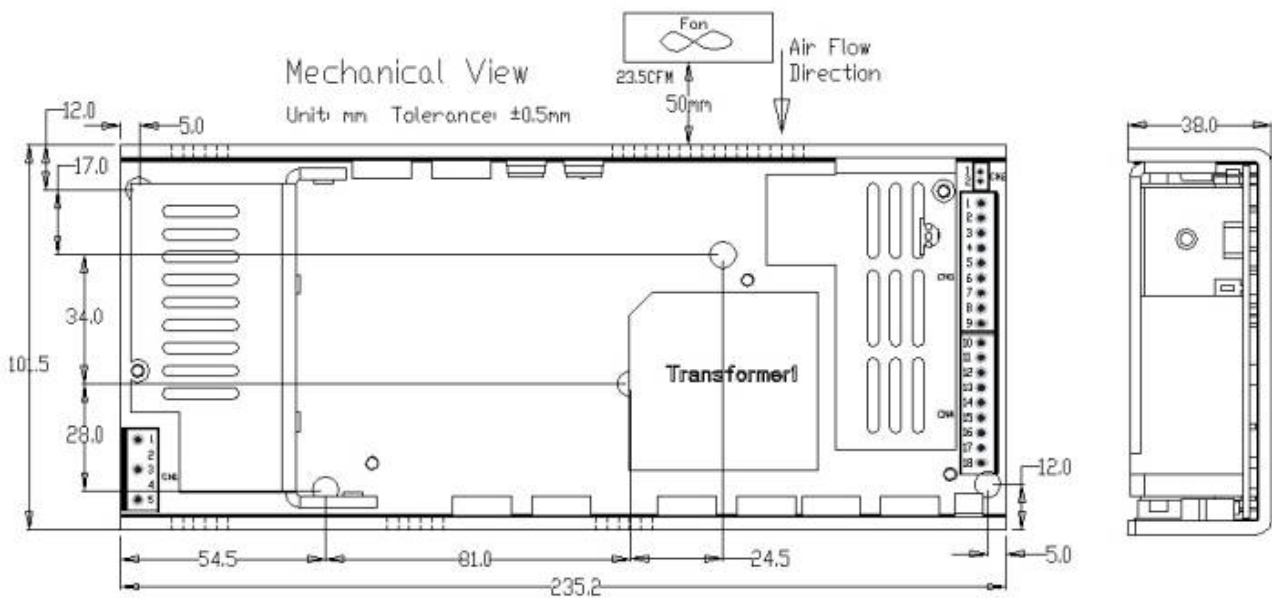
• Input Characteristics		• Output Characteristics	
AC Input Voltage	90 ~ 264Vac	Total Rated Output Power	300W (convection)
Frequency	47 to 63Hz		350W (23.5CFM FAN)
Inrush Current	44A Max.	Voltage and Current	See table
EMI	CISPR/FCC Class B	Ripple and Noise	See table
Isolation	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC	Tolerance	See table
Leakage Current	2mA max.	Line regulation	See table
• Environmental Characteristics		Load regulation	See table
Operating Temperature	-10 ~ 65°C	Hold-up Time	16mS typ.
	(Refer to output load derating curve)	Over Voltage Protection	Shut down o/p voltage
Storage Temperature	-40 ~ 85°C	Over Temperature Protection	Auto Recovery
• Mechanical Outline		Over Load Protection	Constant current limiting, recovers
235.2mmx101.5mmx38mm (L*W*H)			automatically after fault condition is removed



**TABLE**

Model	Output Voltage	Output Current (A)			Ripple & Noise	Tolerance	Line Reg.	Load Reg.
		Rated (convection)	Rated (23.5CFM FAN)	Min.				
ESFG-350-3.3	+3.3V	50A	70A	0	80mVp-p	±2%	±0.5%	±2%
ESFG-350-5	+5V	50A	70A	0	80mVp-p	±2%	±0.5%	±2%
ESFG-350-12	+12V	25A	29.2A	0	100mVp-p	±2%	±0.5%	±1%
ESFG-350-15	+15V	20A	23.4A	0	100mVp-p	±2%	±0.5%	±1%
ESFG-350-24	+24V	12.5A	14.6A	0	150mVp-p	±2%	±0.5%	±1%
ESFG-350-36	+36V	8.3A	9.7A	0	150mVp-p	±2%	±0.5%	±1%
ESFG-350-48	+48V	6.25A	7.3A	0	150mVp-p	±2%	±0.5%	±1%

**Mechanical Outline**



## Connectors Definition

### AC Input Connector (CN1): JST B5P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG	JST VHR or equivalent	JST SVH-21 T-P1.1or equivalent
2,4	No Pin		
3	AC/N		
5	AC/L		

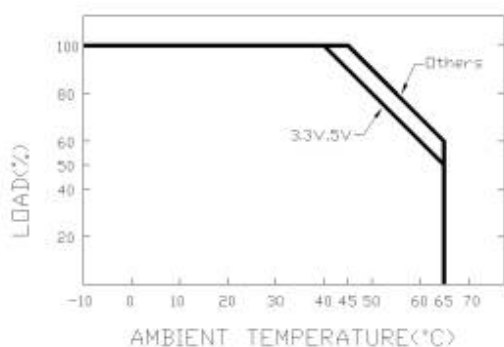
### DC Output Connector (CN3, CN4): JST B9P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1-9	-V	JST VHR or equivalent	JST SVH-21 T-P1.1or equivalent
10-18	+V		

### Remote Sense (CN2)

Pin No.	Assignment
1	RS+
2	RS-

### Derating Curve



### Static Characteristics (5V)

