

300 and 600W Constant Current Power Supplies

Features

- ◆ Universal Input (85 - 265VAC)
- ◆ Adjustable Current Settings
- ◆ Convection Cooled Rating
- ◆ Five Year Warranty
- ◆ Suitable for Battery Charging

Key Market Segments & Applications



Specifications			
Model		EVS300	EVS600
Input Voltage	V	85-265VAC (47-63Hz) or 120-370VDC (1)	
Input Current (1)	A	3.6 / 1.8	
Inrush Current (2)(3)	A	15 / 30	
Power Factor	-	0.97/0.93(2). Meets EN61000-3-2	0.95/0.9(2). Meets EN61000-3-2
Leakage Current	mA	0.5mA Max. Typically 0.2/0.4mA(2)	
Temperature Coefficient	%/°C	<0.02%/°C	
Constant Current Setting Accuracy	A	±10%	
Oversvoltage Protection	V	18V*: 19.8-23.4V, 36V: 39.6-46.8V, 57V: 62.7-74.1V (* EVS300 only)	
Hold Up Time (Typ)	ms	10ms at 100VAC input	
Efficiency (2)	%	18V: 86/89%, 36V: 88/91%, 57V: 87/90%	36V: 85/88%, 57V: 84/87%
Remote On/Off	-	Optional	
Series & Parallel Operation	-	Yes, see instruction manual	
Operating Temperature (No external airflow)	°C	-20 to +70°C Derate linearly to 40% load from 45 to 70°C	-20 to +70°C Derate linearly to 20% load from 50 to 70°C
Operating Temperature	°C	-20 to +70°C	
External airflow (1.4m/s)	°C	Derate linearly to 70% load from 60 to 70°C	Not applicable (EVS600 has internal fan)
Storage Temperature	°C	-30 to +75°C	
Humidity (non condensing)	%RH	Operating: 30 - 90%RH, Storage: 10 - 90%RH	
Cooling	-	Convection or forced air	Internal fan
Withstand Voltage	VAC	Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.	
Isolation Resistance	MΩ	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s ² constant, X, Y, Z 1 hour each	
Shock	-	< 196.1 m/s ²	
Safety Agency Certifications	-	IEC/UL/CSA/EN60950-1, IEC/UL/CSA/EN62368-1, CE Mark	
Conducted & Radiated EMI	-	EN55011/EN55022-B, FCC Class B, VCCI-B	
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11; EN61000-6-2	
Weight (Typ)	g	540g (open frame)	1600g
Size (WxHxD)	in	3.31 x 1.65 x 7.09	4.72 x 2.4 x 7.48
	mm	84 x 42 x 180mm	120 x 61 x 190mm
Warranty	yrs	Five Years	

Notes:

- (1) Safety certified for AC input only. EVS300 derate linearly to 80% load from 90 to 85Vac. EVS600 derate linearly to 80% load from 110 to 85Vac
- (2) 100/200VAC
- (3) 25°C ambient (cold start)

