

Certified in Russia, Ukraine, EU  
 IC PWM driver made in Taiwan  
 Tiny aluminum case  
 10-turns tuning resistor  
 Universal output 12-24MBC  
 Universal input ~84-264VAC; 90-380VDC  
 Work indication by two LED's  
 Automatic overload protection

**Technical Parameters:**

		<b>50Wt</b>	<b>75Wt</b>
Output	Rated power		
	Rated voltage	<b>12-24V</b>	
	Voltage range	11,5-24,5V	
	Rated current	12V:4,25A; 24V:2,1A	12V:6,25A; 24V:3,15A
	Noise & ripple <sup>1</sup>	≤0,5%	
	PWM frequency	120kHz (66kHz without load)	
	Temperature regulation	≤1%	
	Output voltage setup time	1200ms	
	Connector CON2 <sup>2</sup>	1. V-; 2. V+; 3. On/Off	
	MAX current for OC output	40mA	
Input	Rated voltage	~100-240VAC (84-264VAC макс);90-380VDC	
	Frequency range	40 ~ 400Hz	
	Efficiency	Uout=12V, ≥85%; Uout=24V, ≥88%;	
	No load power consumption	≤1,0Wt	
	Inrush current	35A MAX	
Indication	Green LED	ON - normal work, blinks - protection on	
	Red LED	Uout ≤ 18V: off; Uout ≥ 18V: on	
Protection	MAX output power	60Wt	90Wt
	Protection type	Automatic	
Environment	Working temperature	- 25 °C to + 70 °C	
	Storage temperature	-40 °C to +85 °C (humidity 10%~90%)	
	Humidity	20%~90%	
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
Safety & EMC	Confirmed safety standards	IEC61000-3-2:2004, EN61000-3-3:2004, EN55013:2004, EN55020:2003, IEC60065:2009	
	Withstand voltage input/output	3000V/60s/5mA	
	Withstand voltage input/ground	1500V/60s/5mA	
	Withstand voltage output/ground	500V/60s/5mA	
	Insulation resistance	100MOhm (500VDC)	
Others	MTBF	300 000 hours	
	Minimal installation quantity <sup>3</sup>	110x68x31	134x74x37
	Waranty	<b>3 years</b>	
	Packing	white box, 50 pcs per carton	
	Weight	150 g	185 g

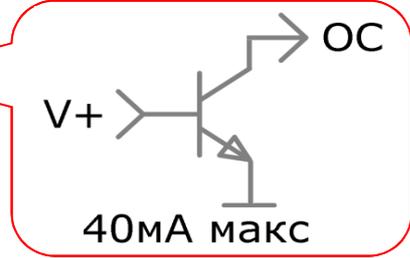
<sup>2</sup> CON2 use for switch OFF output. When On/Off pin connected to V- PS is OFF till this pin will be disconnected from V-

<sup>3</sup> Providing of use insulator between housing and components on PCB. Without insulator distance between PCB components and metallic housing must be not less than 8mm.

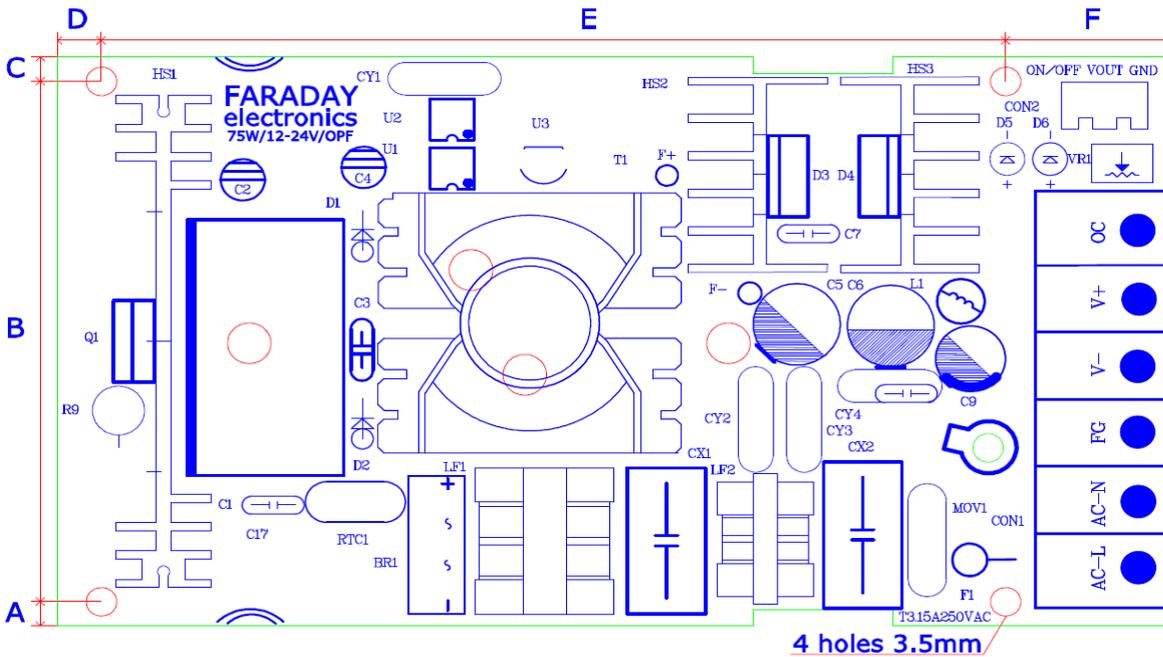
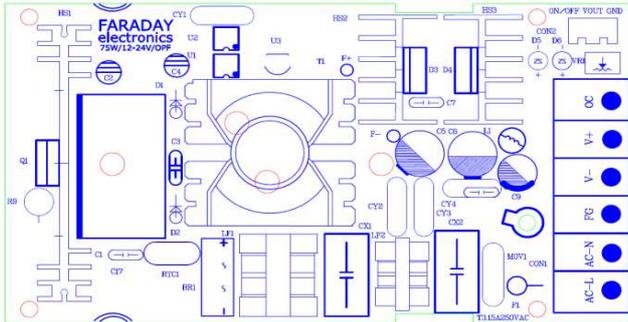
**Pin's position:**

- ..... Output OC
- ..... Output V+
- ..... Output V-
- ..... Grounding
- ..... Input AC-N
- ..... Output AC-L

Indication, setting  
 V+, CON2



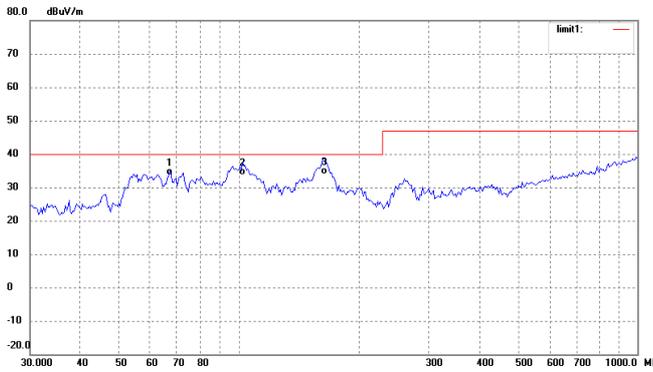
**Overall dimensions, mounting openings:**



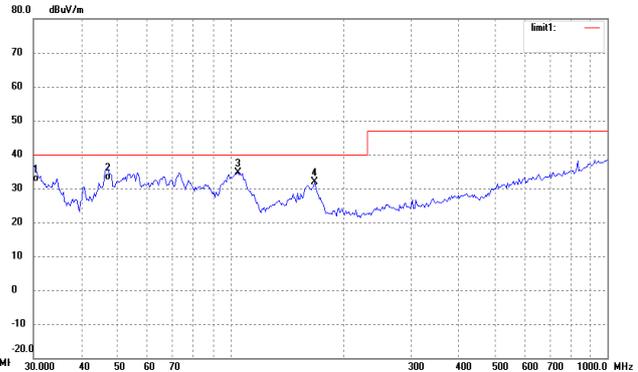
	A	B	C	D	E	F
50W/12-24V/OPF	3,75	57,50	3,75	2,50	87,50	17,00
75W/12-24V/OPF	3,00	64,00	3,00	5,00	104,00	19,00

**Mounting power supply carried out ONLY by plastic racks. Distance to metallic housing from PCB components not less than 8 mm. For dropping down temperature in housing recommended to use ventilation holes above transformer and radiator at least 30 cm<sup>2</sup>**

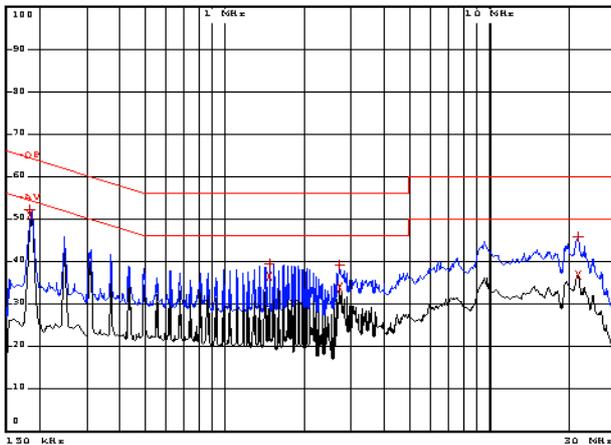
50W/12-24v/OPF



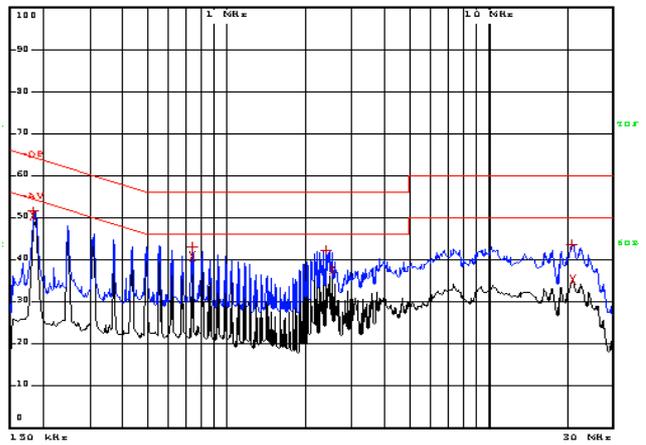
75W/12-24v/OPF



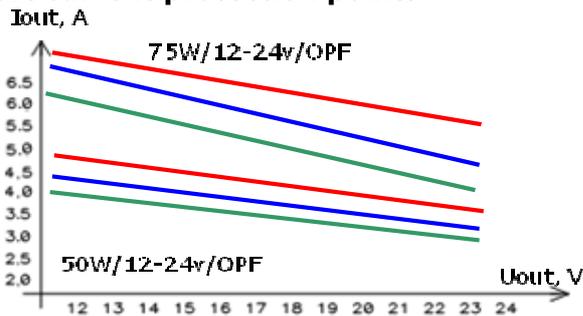
50W/12-24v/OPF



75W/12-24v/OPF

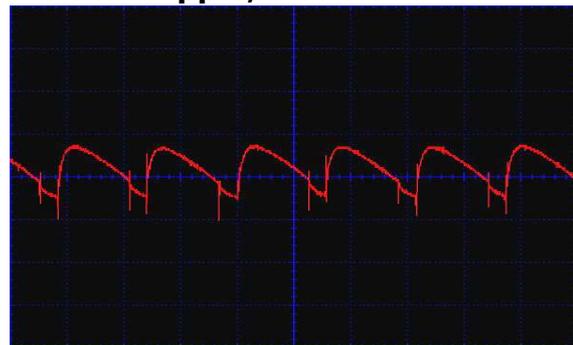


**Short current protection points:**



- Protection on at t°C = 25°C
- Protection on at t°C = 45°C
- Protection on at t°C = 65°C

**1 Noise & ripple, waveform:**



**FARADAY Electronics accepting applications on development and manufacturing of power supplies according to Your technical tasks. Minimal order quantity - 2000 pcs. Term of readiness - 20 days. Production time - 15 days + delivery.**