

12-24VDC Adjustable output with 10-turns variable resistor

Universal output 12-24VDC

Wide range of input voltage: 84-264VAC, 90-380VDC

Overload protection with automatic recovery

2 x LED Status Indicator

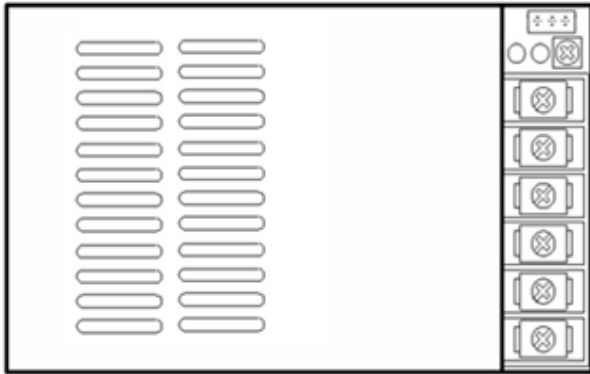
Miniature size

**Specification:**

Output	Rated power	50W		75W	
	DC voltage	12-24V			
	DC adjustable voltage range	11.5-24.5V			
	Rated current	12V @ 4.25A; 24V @ 2.1A		12V @ 6.25A; 24V @ 3.15A	
	Output voltage noise and ripples	≤0.5%			
	PWM frequency	65-130KHz (22KHz without load)			
	Temperature regulation	≤1%			
	Output voltage setup time	1200ms			
	Max current for OC output	40mA			
Intput	Voltage range	100-240VAC (84VAC Min, 264VAC Max) 90-380VDC			
	Frequency range	40 ~ 400Hz			
	Efficiency	>85% @ 12V, >88% @ 24V			
	Open-circuit power	≤1.0W			
	Inrush current	35A max			
Indication	Green LED	on solid - normal, flashing - protection activated			
	Red LED	ON/OFF Output voltage: >18VDC/<18VDC			
Protection	Max output power	60W		90W	
	Protection type	full auto			
Environment	Operating ambient temperature	- 25 °C to + 70 °C			
	Storage temperature	-40 °C to +85 °C (humidity 10%~90%)			
	Humidity (non-condensing)	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			
	Input/output breakdown voltage	3000V/60s/5mA			
	Input/ground breakdown voltage	1500V/60s/5mA			
	Output/ground breakdown voltage	500V/60s/5mA			
	Insulation resistance (input/output, input/ground, output/ground)	100MΩ, ±500V			
Others	MTBF	150 000 hours			
	Enclosure dimensions	110x68x31		134x74x37	
	Warranty	3 years			
	Packaging	white box, 50 pieces per carton			
	Weight	150 g		185 g	

CON1 port (pin 3) on 50W and 75W Power Supplies is used for external control. If V- applied from pin #1 the Power Supply turns OFF. If V+ applied from pin#2 the Power Supply is ON. Numbering of pins starts from board edge: #1: V- #2 V+ #3 ON/OFF

### Pin's position:



CON2. GND,  
Indication, V+ ajust.

OC output

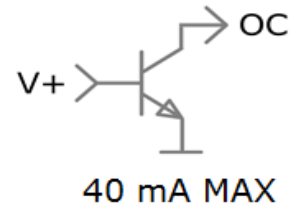
V+ output

V- output

FG input

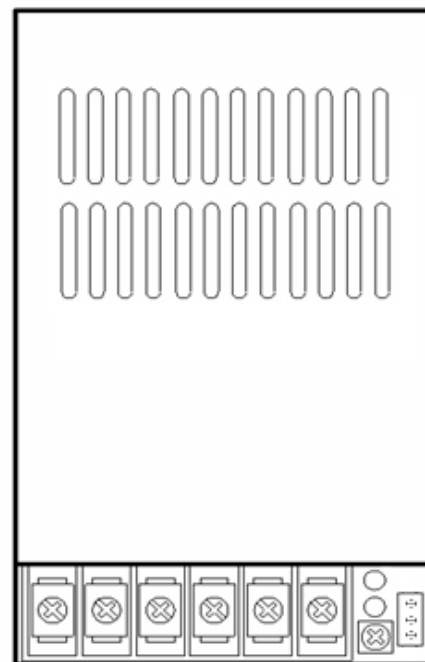
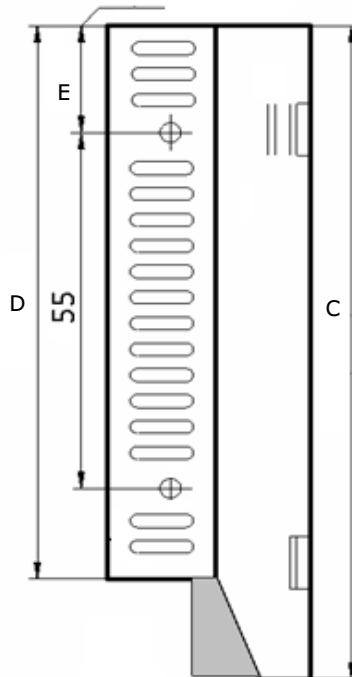
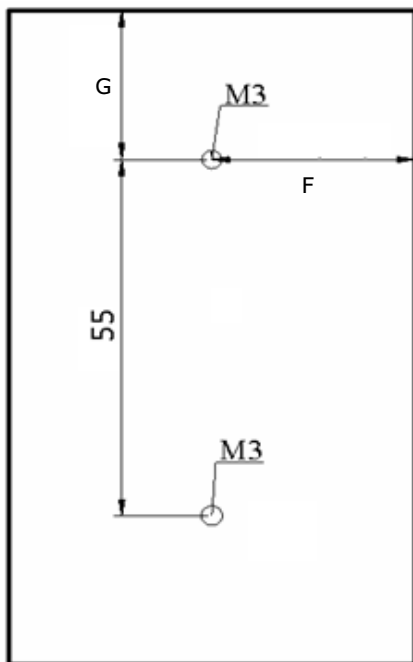
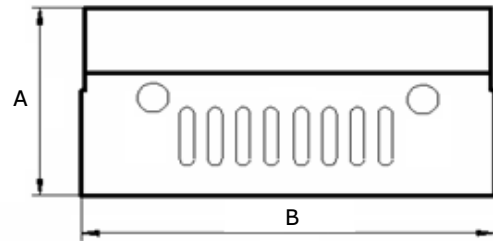
AC-N input

AC-L input



### Housing drawing:

	A	B	C	D	E	F	G
45W/12-24v/120AL	31	68	110	92	18	21,5	55
75W/12-24v/140AL	37	74	134	116	30	24,5	37



### Label:



### Bar-code:

50W/12-24v/120AL



4 820154 180139 >

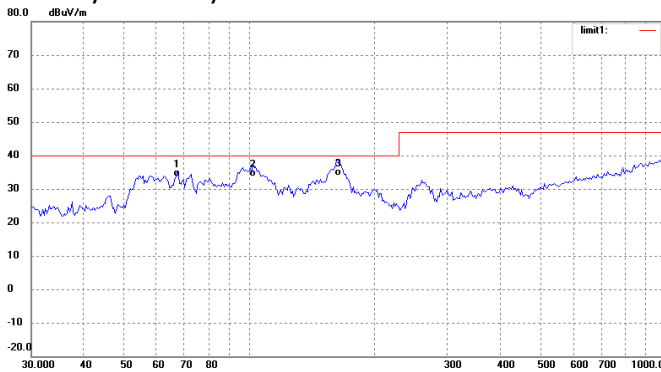
75W/12-24v/120AL



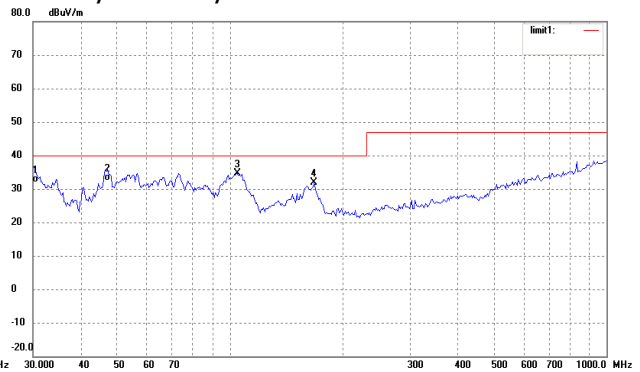
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### EMI-emission test: Radiointerference

50W/12-24v/120AL

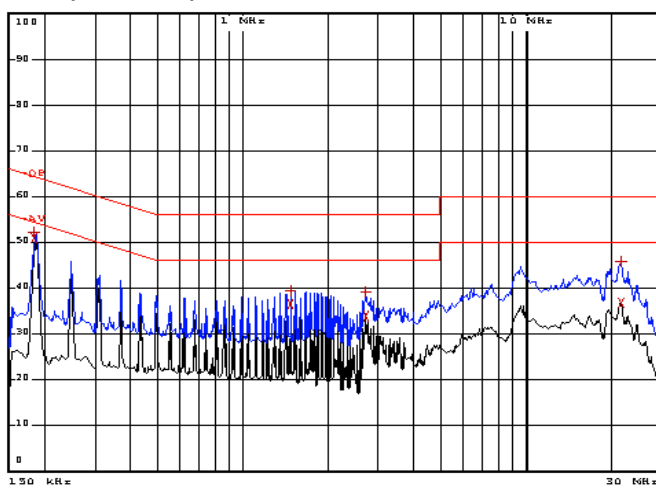


75W/12-24v/140AL

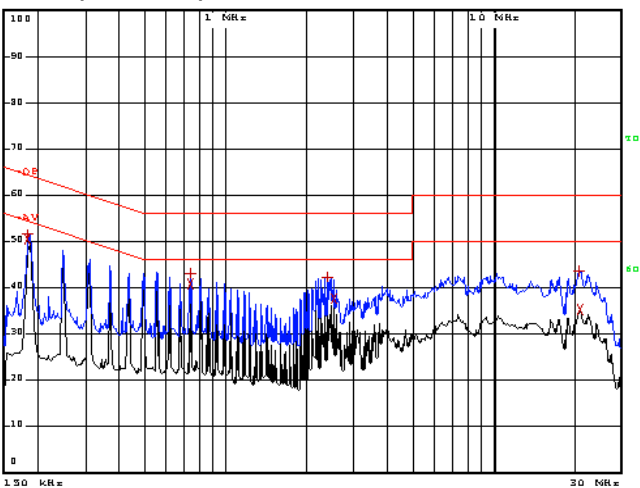


### EMI-emission test: Emission interference

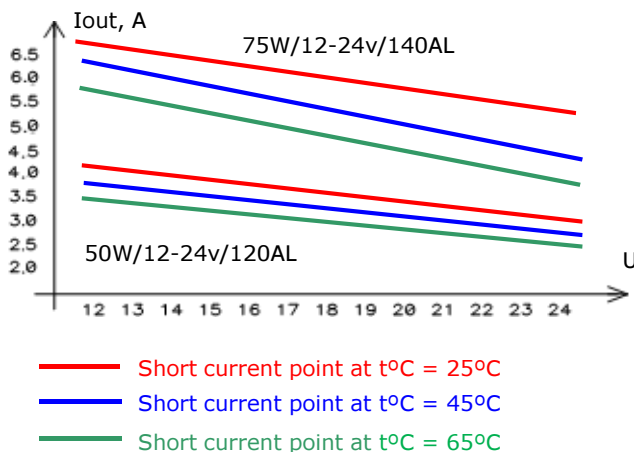
50W/12-24v/120AL



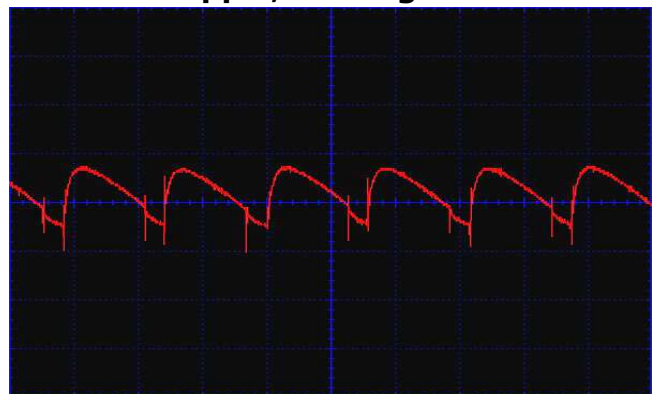
75W/12-24v/140AL



### Short current protection points:



### 1 Noise & ripple, oscillogram:



**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.**