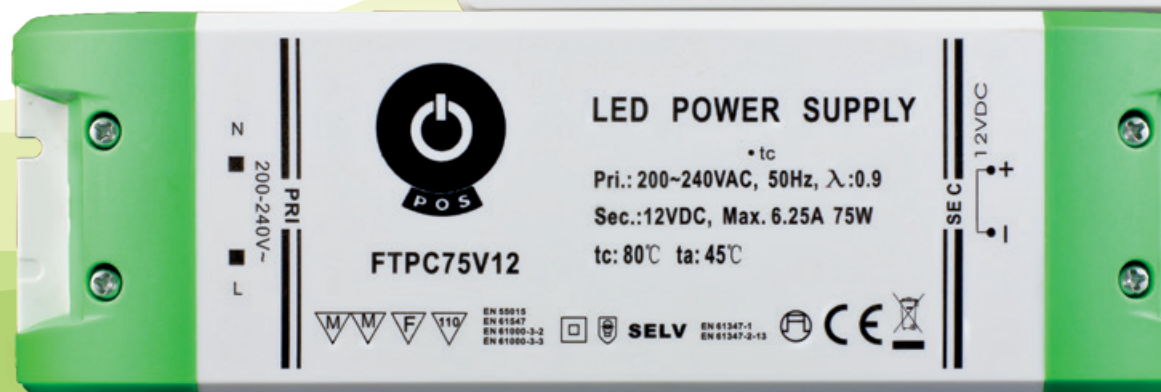


2017



Product Catalogue

POS power supplies are dedicated solutions for signage and LED lighting advertisement, along with architectural, decorative and professional lighting applications. We also offer solutions for other market branches, such as CCTV, intelligent building and home automation.

The wide model range includes cost effective enclosed power supplies up to professional, but still competitive, high end and high efficiency IP65/67 models.

The unique FTFC series is characterized by ultralow profile case design, allowing these to be installed in tight places unavailable for other solutions on the market. Available also in slim case design (low, narrow and long) – 30mm wide, and up to 17mm high.

The high efficiency IP65/67 MCHQ series, range from 40W up to 480W and voltage versions 12V/24V/36V/48V/54V.

Each available in either of two options: IP65 with Iout and Uout adjustment or IP67 with 3in1 dimming function.

The POS power supplies have up to 5 year warranty.

POS Power

Up to 2 years warranty:

- enclosed **POS** (15W~500W)
- plastic **PSV** voltage (12W~100W)

Up to 3 years warranty:

- DIN** voltage (15W~100W)

Up to 5 years warranty:

- flat **FTFC** voltage (6W~200W)
- flat **FTFC** current (12W~60W)
- flat **FTFC-S**, slim (30W~200W)
- flat **FTFC-S** current (15W~30W)
- flat **FTFC-C** voltage (12W~100W)

- flat **FTFC-D** voltage (30W)
- flat **FTFC-SP-WP** voltage (60W~150W)

Up to 5 years warranty:

- metal IP65/67 **MCHQ A**(40W~600W)
- metal IP65/67 **MCHQ B**(40W~320W)
- metal IP65/67 **MCHQ E**(100W~200W)



FTPC 6~200W voltage (IP20)



Features

- built-in active PFC function (FTPC30Vxx, FTPC50Vxx, FTPC75Vxx, FTPC100Vxx, FTPC150Vxx & FTPC200Vxx)
- wide range of models - from 6W to 200W
- voltage versions: 12V & 24V
- cooling by free air convection
- compliance to worldwide safety regulations for lighting
- isolation class II
- wide operating temperature range (-20°C ~ +45°C)
- approved for installation directly on wood
- up to 5 years warranty



CE SELV

Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight	
FTPC6V12	6W	12V	0.5A	short circuit, overload, over temperature	EN 55015, EN 61347-2-13	-20℃ ~ +45℃	99×46×11 mm	0.05 kg	
FTPC8V12LC	8W	12V	0.67A				94.5×46.2×19.5 mm	0.06 kg	
FTPC12V12	12W	12V	1A				127×50×11 mm	0.06 kg	
FTPC15V12VF	15W	12V	1.25A				128×51×14 mm	0.07 kg	
FTPC15V12LC	15W	12V	1.25A				123×44×19.2 mm	0.07 kg	
FTPC20V12	20W	12V	1.6A				154×50×14 mm	0.11 kg	
FTPC20V24VF	24W	24V	1A				154×50×14.5 mm	0.12 kg	
FTPC30V12	30W	12V	2.5A	short circuit, overload, over voltage, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2 Class C		159×58×18 mm	0.16 kg	
FTPC30V24	30W	24V	1.25A						
FTPC50V12	50W	12V	4.1A				short circuit, overload, over temperature	185×64×22 mm	0.25 kg
FTPC50V24	50W	24V	2.08A						
FTPC75V12	75W	12V	6.25A					201×64×30 mm	0.35 kg
FTPC75V24	75W	24V	3.12A						
FTPC100V12	100W	12V	8.33A	short circuit, overload, over temperature				180×65.5×31.2 mm	0.40 kg
FTPC100V24	100W	24V	4.16A						
FTPC150V12	132W	12V	11A	short circuit, overload, over voltage, over temperature				180×65.5×31.2 mm	0.43 kg
FTPC150V24	150W	24V	6.25A						
FTPC200V12	180W	12V	15A					195×67.1×31.2 mm	0.46 kg
FTPC200V24	200W	24V	8.33A						



FTPC 12~60W current (IP20)



Features

- constant current design
- built-in active PFC function (FTPC30C700, FTPC40Cxx & FTPC60Cxx)
- wide range of models - from 12W to 60W
- cooling by free air convection
- compliance to worldwide safety regulations for lighting
- isolation class II
- wide operating temperature range (-20°C ~ +45°C)
- approved for installation directly on wood
- up to 5 years warranty



CE SELV

Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
FTPC12C350	0-12W	0~34V	350mA	short circuit, over temperature	EN 55015, EN 61347-2-13	-20°C ~ +45°C	127×50×10 mm	0.05 kg
FTPC15C350	10-15W	29~43V	350mA				128×51×14 mm	0.07 kg
FTPC20C350	11-20W	32~56V	350mA				159×58×18 mm	0.11 kg
FTPC20C700	10-20W	15~29V	700mA		EN 55015, EN 61347-2-13, EN61000-3-2 Class C		160×58×18 mm	0.16 kg
FTPC30C700	15-30W	21~42V	700mA				159×58×18 mm	0.18 kg
FTPC40C700	20-40W	29~57V	700mA				185×64×22 mm	0.25 kg
FTPC40C1050	20-40W	19~38V	1050mA					
FTPC60C1050	30-60W	29~57V	1050mA					
FTPC60C1400	30-60W	22~42V	1400mA					
FTPC60C2100	30-60W	15~28V	2100mA					



FTPC-S_{30~150W} voltage & current slim (IP20)

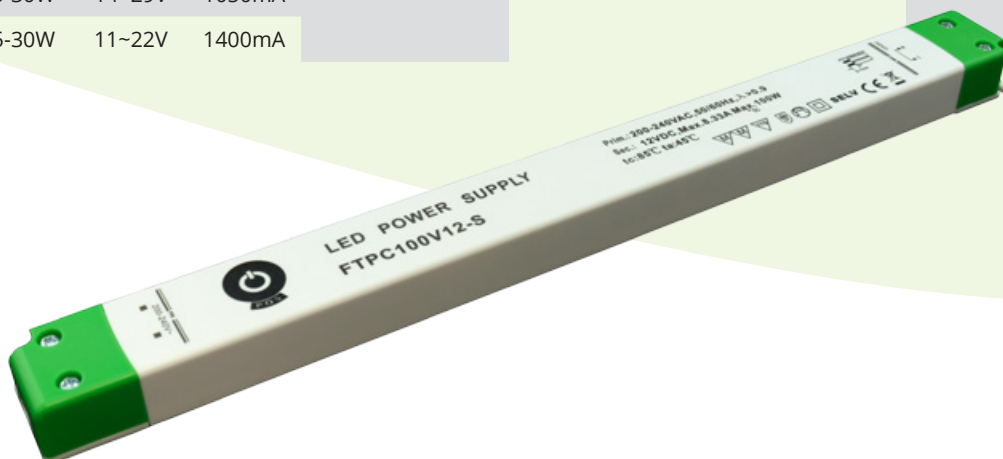


Features

- built-in active PFC function
- range of models - from 30W to 150W
- cooling by free air convection
- compliance to worldwide safety regulations for lighting
- isolation class II
- narrow and low profile
- wide operating temperature range (-20°C ~ +45°C)
- approved for installation directly on wood
- up to 5 years warranty



Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight		
FTPC30V12-S	30W	12V	2.5A	short circuit, overload, over voltage, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2 Class C	-20°C ~ +45°C	251×30×16 mm	0.11 kg		
FTPC30V24-S	30W	24V	1.25A							
FTPC60V12-S	60W	12V	5A	short circuit, overload					304.5×30×17 mm	0.16 kg
FTPC60V24-S	60W	24V	2.5A							
FTPC100V12-S	100W	12V	8.33A						322×30×18.5 mm	0.22 kg
FTPC100V24-S	100W	24V	4.17A							
FTPC150V12-S	132W	12V	11A	short circuit, overload, over temperature					322.6×30.1×21.5 mm	0.25 kg
FTPC150V24-S	150W	24V	6.25A							
FTPC200V12-S	200W	12V	15A							
FTPC200V24-S	200W	24V	8.33A							
FTPC30C350-S	15-30W	43~86V	350mA	short circuit					251×30×16 mm	0.11 kg
FTPC30C500-S	15-30W	30~60V	500mA							
FTPC30C700-S	15-30W	21~43V	700mA							
FTPC30C1050-S	15-30W	14~29V	1050mA							
FTPC30C1400-S	15-30W	11~22V	1400mA							

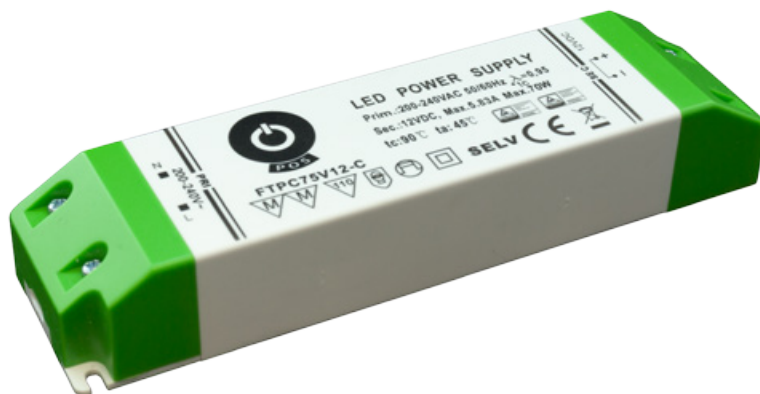


FTPC-C 12~100W voltage (IP20)



Features

- built-in active PFC function (FTPC30Vxx-C, FTPC50Vxx-C, FTPC75Vxx-C, FTPC100Vxx-C)
- wide range of models - from 12W to 100W
- voltage versions: 12V & 24V
- cooling by free air convection
- compliance to worldwide safety regulations for lighting
- isolation class II
- wide operating temperature range (-20°C ~ +45°C)
- approved for installation directly on wood
- up to 5 years warranty



Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
FTPC8V12-C	8W	12V	0.67A	short circuit, over current	EN 55015, EN 61347-2-13, EN61000-3-2 Class C	-20°C ~ +45°C	67×33×20 mm	0.045 kg
FTPC12V12-C	12W	12V	1A	short circuit, overload, over temperature			98.4×45.6×10.7 mm	0.05 kg
FTPC12V24-C	12W	24V	0.5A					
FTPC20V12-C	20W	12V	1.67A				103×35×16 mm	0.06 kg
FTPC20V24-C	20W	24V	0.83A	short circuit, overload				
FTPC30V12-C	30W	12V	2.5A				158×51×17 mm	0.18 kg
FTPC30V24-C	30W	24V	1.25A					
FTPC50V12-C	50W	12V	4.2A	short circuit, overload, over temperature			160×57.8×18 mm	0.19 kg
FTPC50V24-C	50W	24V	2.1A					
FTPC75V12-C	70W	12V	5.83A				170×44.5×28.2 mm	0.23 kg
FTPC75V24-C	75W	24V	3.13A	short circuit, overload, over voltage, over temperature				
FTPC100V12-C	100W	12V	8.33A				180×65.5×31.2 mm	0.40 kg
FTPC100V24-C	100W	24V	4.17A					

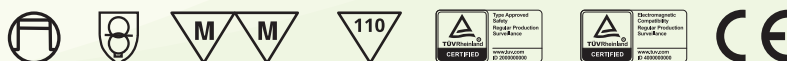


FTPC-D 30W voltage (IP67)



● Features

- rated input voltage: 220-240Vac
- input frequency: 50/60Hz
- body: PC
- Protection: over load, short circuit, over temperature
- up to 5 years warranty



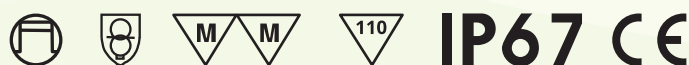
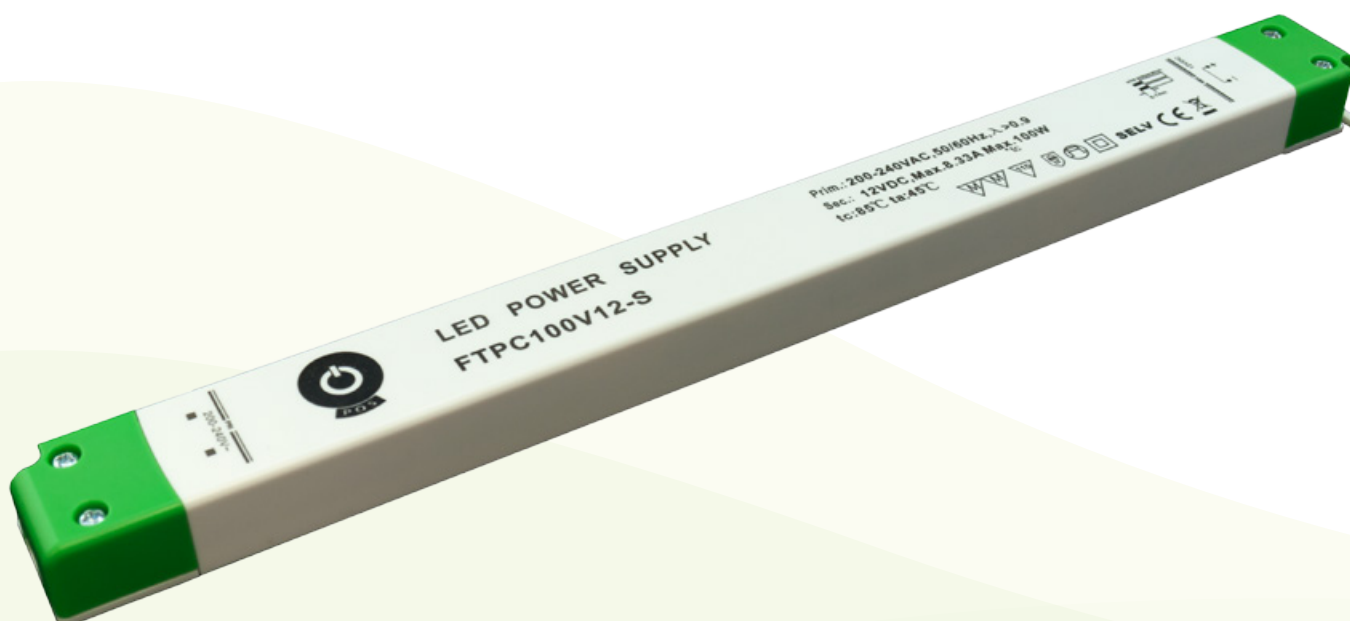
Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)
FTPC30V12-D	30W	12V	2.5A	short circuit, overload, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2	-20°C ~ +45°C	158×45.8×18.3 mm
FTPC30V12-D	30W	24V	1.25A				

FTPC-S-WP 60~150W voltage



● Features

- rated input voltage: 220-240Vac
- input frequency: 50/60Hz
- body: PC
- IP66
- Protection: over load, short circuit, over temperature
- up to 5 years warranty



Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)
FTPC60V12-S-WP	60W	12V	5A	short circuit, overload, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2	-45°C ~ +80°C	285.4×30×18 mm
FTPC60V24-S-WP	60W	24V	2.25A				
FTPC100V12-S-WP	100W	12V	8.33A			45°C ~ +80°C	303.4×30×20 mm
FTPC100V24-S-WP	100W	24V	4.17A				
FTPC150V12-S-WP	150W	12V	11A			45°C ~ +80°C	322×30.1×21.5
FTPC150V24-S-WP	150W	24V	6.25A				

MCHQ-A_{40~480W} voltage (IP65)



● Features

- built-in active PFC function
- wide range of models - from 40W to 480W
- voltage versions: 12V, 24V, 36V, 48V & 54V
- cooling by free air convection
- fully encapsulated with IP65 level
- compliance to worldwide safety regulations for lighting
- isolation class I
- wide operating temperature range (-40°C ~ +70°C)
- adjustable output voltage and output current
- up to 5 years warranty



MCHQ-A available also as silver case



IP65 CE SELV

Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
MCHQ40V12 A	40W	12V	3.3A	short circuit, overload, over voltage, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2 Class C	-40°C ~ +70°C	157×52.9×36.5 mm	0.46 kg
MCHQ40V24 A	40W	24V	1.66A					
MCHQ40V36 A	40W	36V	1.1A					
MCHQ40V48 A	40W	48V	0.83A					
MCHQ60V12 A	60W	12V	5A				172×52.9×36.5 mm	0.53 kg
MCHQ60V24 A	60W	24V	2.5A					
MCHQ60V36 A	60W	36V	1.67A					
MCHQ60V48 A	60W	48V	1.25A					
MCHQ80V12 A	80W	12V	6.7A				172.4×61.5×36.5 mm	0.63 kg
MCHQ80V24 A	80W	24V	3.33A					
MCHQ80V36 A	80W	36V	2.22A					
MCHQ80V48 A	80W	48V	1.67A					
MCHQ100V12 A	97W	12V	8.1A				190×61.5×36.5 mm	0.67 kg
MCHQ100V24 A	99W	24V	4.1A					
MCHQ100V36 A	99W	36V	2.75A					
MCHQ100V48 A	99W	48V	2.05A					
MCHQ150V12 A	150W	12V	12.5A				220.8×61.5×36.5 mm	0.82 kg
MCHQ150V24 A	150W	24V	6.3A					
MCHQ150V36 A	150W	36V	4.2A					
MCHQ150V48 A	150W	48V	3.2A					
MCHQ185V12 A	168W	12V	14A				195×73.5×38 mm	0.90 kg
MCHQ185V24 A	185W	24V	7.7A					
MCHQ185V36 A	185W	36V	5.1A					
MCHQ185V48 A	185W	48V	3.85A					
MCHQ250V12 A	216W	12V	18A				225.2×73.5×38 mm	1.07 kg
MCHQ250V24 A	250W	24V	10.4A					
MCHQ250V36 A	250W	36V	7A					
MCHQ250V48 A	250W	48V	5.2A					
MCHQ250V54 A	250W	54V	4.63A				246×84×41.3 mm	1.55 kg
MCHQ320V12 A	264W	12V	22A					
MCHQ600V12 A	480W	12V	40A				290×124×45.5 mm	3.25 kg
MCHQ600V24 A	600W	24V	25A					
MCHQ600V48 A	600W	48V	12.5A					

MCHQ-B 40~250W voltage (IP67)



● Features

- built-in active PFC function
- wide range of models - from 40W to 250W
- voltage versions: 12V, 24V, 36V, 48V & 54V
- built-in 3in1 dimming function: 0-10V, PWM or resistance
- cooling by free air convection
- fully encapsulated with IP67 level
- compliance to worldwide safety regulations for lighting
- isolation class I
- wide operating temperature range (-40°C ~ +70°C)
- up to 5 years warranty



MCHQ-B available also as silver case



IP67 CE SELV

Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
MCHQ40V12 B	40W	12V	3.3A	short circuit, overload, over voltage, over temperature	EN 55015, EN 61347-2-13, EN61000-3-2 Class C	-40°C ~ +70°C	157×52.9×36.5 mm	0.48 kg
MCHQ40V24 B	40W	24V	1.66A					
MCHQ40V36 B	40W	36V	1.1A					
MCHQ40V48 B	40W	48V	0.83A					
MCHQ60V12 B	60W	12V	5A				172×52.9×36.5 mm	0.55 kg
MCHQ60V24 B	60W	24V	2.5A					
MCHQ60V36 B	60W	36V	1.67A					
MCHQ60V48 B	60W	48V	1.25A					
MCHQ80V12 B	80W	12V	6.7A				172.4×61.5×36.5 mm	0.66 kg
MCHQ80V24 B	80W	24V	3.33A					
MCHQ80V36 B	80W	36V	2.22A					
MCHQ80V48 B	80W	48V	1.67A					
MCHQ100V12 B	97W	12V	8.1A				190×61.5×36.5 mm	0.69 kg
MCHQ100V24 B	99W	24V	4.1A					
MCHQ100V36 B	99W	36V	2.75A					
MCHQ100V48 B	99W	48V	2.05A					
MCHQ150V12 B	150W	12V	12.5A				220.8×61.5×36.5 mm	0.83 kg
MCHQ150V24 B	150W	24V	6.3A					
MCHQ150V36 B	150W	36V	4.2A					
MCHQ150V48 B	150W	48V	3.2A					
MCHQ185V12 B	168W	12V	14A				195×73.5×38 mm	0.92 kg
MCHQ185V24 B	185W	24V	7.7A					
MCHQ185V36 B	185W	36V	5.1A					
MCHQ185V48 B	185W	48V	3.85A					
MCHQ250V12 B	216W	12V	18A				225.2×73.5×38 mm	1.09 kg
MCHQ250V24 B	250W	24V	10.4A					
MCHQ250V36 B	250W	36V	7A					
MCHQ250V48 B	250W	48V	5.2A					
MCHQ250V54 B	250W	54V	4.63A				246 x 84 x 41.3 mm	1.30 kg
MCHQ320V12 B	320W	12V	22A					
MCHQ320V15 B	320W	15V	19A					
MCHQ320V24 B	320W	24V	13A					
MCHQ320V36 B	320W	36V	8.9A				290×124×45.5 mm	3.25 kg
MCHQ320V48 B	320W	48V	6.7A					
MCHQ320V54 B	320W	54V	6A					
MCHQ600V12 B	480W	12V	50A					
MCHQ600V24 B	600W	24V	25A					
MCHQ600V48 B	600W	48V	12.5A					

MCHQ-E 100~200W voltage (IP67)



Features

- european AC input range
- built-in active PFC function
- range of models - from 100W to 200W
- voltage versions: 12V & 24V
- cooling by free air convection
- fully encapsulated with IP67 level
- compliance to worldwide safety regulations for lighting
- isolation class I
- wide operating temperature range (-40°C ~ +60°C)
- up to 5 years warranty



IP67 CE SELV

MCHQ100V12-E	100W	12V	8.33A
MCHQ100V24-E	100W	24V	4.17A
MCHQ150V12-E	150W	12V	12.5A
MCHQ150V24-E	150W	24V	6.25A
MCHQ200V12-E	200W	12V	16.7A
MCHQ200V24-E	200W	24V	8.33A
MCHQ250V12-E	250W	12V	20.83A
MCHQ250V24-E	250W	24V	10.42A
MCHQ320V12-E	320W	12V	26.66A
MCHQ320V24-E	320W	24V	13.33A

short circuit,
overload, over
voltage, over
temperature

EN 55015,
EN 61347-2-13,
EN61000-3-2
Class C

-40°C ~ +60°C

212×46×38.3 mm 0.60 kg

190×61.5×36.5 mm 0.68 kg

220.8×61.5×36.5 mm 0.82 kg

225.8×61.5×36.5 mm 0.80 kg

225.2×73.5×38 mm 1.00 kg



POS 15~480W voltage (IP20)

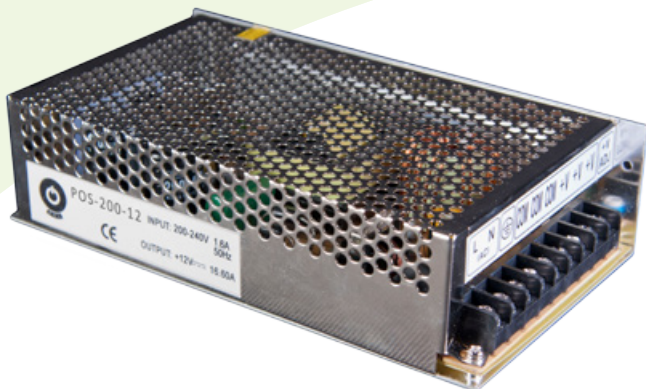


● Features

- universal AC input / full range
- wide range of models - from 15W to 480W
- 100% full load burn-in test
- LED indicator for power on
- cooling by free air convection
- enclosed
- good quality / price ratio
- up to 2 years warranty



Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
POS-15-12	15W	12V	1.25A	short circuit, overload	EN60950-1, EN55022	-5°C ~ +45°C	98×97×35 mm	0.30 kg
POS-25-12	25W	12V	2.1A				98×97×35 mm	0.31 kg
POS-35-12	35W	12V	2.9A				130×98×38 mm	0.38 kg
POS-60-12	60W	12V	5A				159×97×37 mm	0.46 kg
POS-75-12	75W	12V	6.25A				159×97×37 mm	0.48 kg
POS-100-12	100W	12V	8.3A				200×98×38 mm	0.60 kg
POS-150-12	150W	12V	12.5A				198×109×50 mm	0.74 kg
POS-200-12	200W	12V	16.6A				198×109×50 mm	0.86 kg
POS-240-12	240W	12V	20A	short circuit, overload, over voltage, over temperature		-10°C ~ +50°C	215×115×51 mm	0.88 kg
POS-350-12	350W	12V	29A				215×115×51 mm	0.95 kg
POS-500-12	480W	12V	40A				241×124×64 mm	1.40 kg

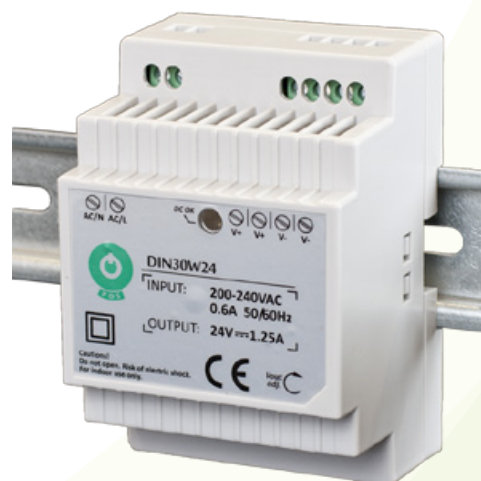


DIN 15~100W voltage



● Features

- european AC input range
- range of models - from 15W to 100W
- LED indicator for power on
- cooling by free air convection
- isolation class II
- can be installed on DIN Rail TS-35/7.5 or 15
- up to 3 years warranty



Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
DIN15W12	15W	12V	1.25A	short circuit, overload, over voltage	EN60950-1, EN55022	-20℃ ~ +50℃	25×92.5×56 mm	0.10 kg
DIN15W24	15W	24V	0.63A					
DIN30W12	30W	12V	2.5A	short circuit, overload, over voltage, over temperature			62.5×93×56 mm	0.20 kg
DIN30W24	30W	24V	1.25A					
DIN60W12	60W	12V	5A					
DIN60W24	60W	24V	2.5A				78×93×56 mm	0.27 kg
DIN100W12	99.6W	12V	8.3A					
DIN100W24	99.6W	24V	4.15A				100×93×56 mm	0.31 kg



PSV 12~100W voltage (IP67)



● Features

- european AC input range
- wide range of models - from 12W to 100W
- 12V version
- cooling by free air convection
- fully encapsulated with IP67 level
- isolation class II
- wide operating temperature range (-20°C ~ +60°C)
- up to 2 years warranty



IP67  **CE**

Model	Power	Voltage	Current	Protection	Safety & EMC	Working temperature	Dimensions (L×W×H)	Weight
PSV-12-12	12W	12V	1A				130×25×22 mm	0.12 kg
PSV-20-12	20W	12V	1.67A	short circuit, overload, over voltage			140×31×24 mm	0.19 kg
PSV-35-12	36W	12V	3A		EN60950-1, EN55022, EN61000-3-2 Class C	-20°C ~ +60°C	148×40×32 mm	0.31 kg
PSV-60-12	60W	12V	5A	short circuit, overload, over voltage, over temperature			163.5×42×32 mm	0.38 kg
PSV-100-12	102W	12V	8.5A	short circuit, overload, over voltage			190×52×37 mm	0.60 kg



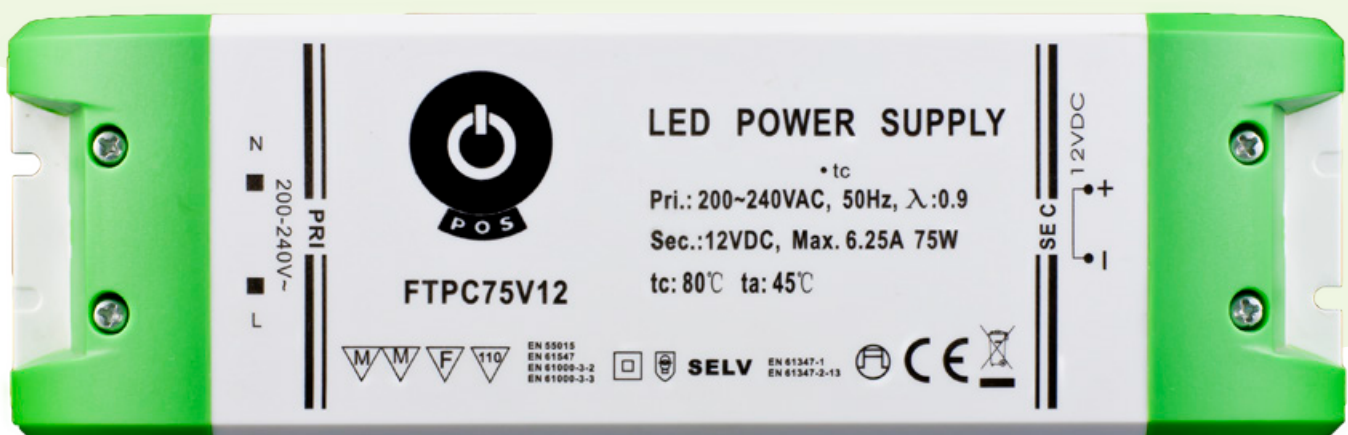
Marks



	CE mark of conformity
	The transformer complies with European Regulation, in general situation, could mount on or in furniture and cabinet
	Flammable marks
	International mark for independent converter
	International mark for protection Class 2
	Controlgear with safety isolation and short circuit protection
SELV	International mark for transformers of converters (safety extra-low voltage)
	The surface temperature of Transformer/ballast will be no more than 110°C on the condition of overload or short circuit

Test standard

EN 55015	Limits and methods of measurements of radio interference characteristics of lights
EN 61347-2-13	Particular requirements for d.c. or a.c. supplied electronic control gear for LED modules
EN 61000-3-2	Limits for harmonic current emissions





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