

Electronic Products

AC/DC Converter KPS-30, 30W, AC/DC DIN-Rail Power Supply

FEATURES

- Universal 85-264VAC or 120-370VDC input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range -40°C to +70°C
- High I/O isolation voltage up to 4000VAC
- Industrial-grade design
- OVC III (EN61558-1 standards)
- Low standby power consumption, high efficiency
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Withstand 300VAC surge input for 5s
- DIN Rail TS35X7.5/ TS35X15 mountable
- Safety according to EN61558



KPS-30 is AC-DC featuring a cost-effective, energy efficient solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise, compliant with international IEC62368 standards for EMC and safety sepecifitions meet IEC/EN61000-4, CISPR32, EN55032, IEC62368 and EN62368. These light weight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control equipment machinery and all kinds of applications in a harsh environment.

Selection Guide						
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (µF) Max.
EN/IEC/ BIS/UKCA	KPS-30	36	24V/1.5A	21.6-29.0	88	1400

Note: *The actual adjustment range may extend outside the values stated, care should be exercised to ensure that the output voltage and power levels remain within the published maximum values.

Input Specifications					
Item	Operating Conditions	Min.	Typ..	Max.	Unit
Input Voltage Range	AC input	85	--	264	VAC
	DC input	120	--	370	VDC

Output Specifications					
Item	Operating Conditions	Min.	Typ.	Max.	Unit
Output Voltage Accuracy	0% - 100% load	--	±2	--	%
Line Regulation	Rated load	--	±0.5	--	
Load Regulation	230VAC	--	±1.5	--	
Output Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	--	--	150	mV
Temperature Coefficient		--	±0.02	--	%/°C
Short Circuit Protection		Hiccup, continuous, self-recovery			
Over-current Protection		≥120 % Io, self-recovery			
Over-voltage Protection		≤36V	Output voltage clamp or hiccup		
Minimum Load		0	--	--	%
Start-up Time		--	--	3	s
Hold-up Time	115VAC	--	12	--	ms
	230VAC	--	60	--	

Note: *The "parallel cable" method is used for ripple and noise test, please refer to AC-DC Converter Application Notes for specific information.

Electronic Products

AC/DC Converter KPS-60, 60W, AC/DC DIN-Rail Power Supply

FEATURES

- Universal 85-264VAC or 120-370VDC input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40°C to +70°C
- High I/O isolation test voltage up to 4000VAC
- Industrial-grade design
- OVC III (EN61558-1 standards)
- Low standby power consumption, high efficiency
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Withstand 300VAC surge input for 5s
- DIN Rail TS35X7.5/ TS35X15 mountable
- Safety according to EN61558



EN62368-1
IEC62368-1
BS EN 62368-1

KPS-60 is AC-DC featuring a cost-effective, energy efficient solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise, compliant with international IEC62368 standards for EMC and safety sepecifications meet IEC/EN61000-4, CISPR32, EN55032, IEC62368 and EN62368. These light weight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control equipment machinery and all kinds of applications in a harsh environment.

Selection Guide						
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/IEC/ BIS/UKCA	KPS-60	60	24V/2.5A	21.6-29.0	90	4000

Note: *The actual adjustment range may extend outside the values stated, care should be exercised to ensure that the output voltage and power levels remain within the published maximum values.

Input Specifications					
Item	Operating Conditions	Min.	Typ..	Max.	Unit
Input Voltage Range	AC input	85	--	264	VAC
	DC input	120	--	370	VDC
Input Frequency		47	--	63	Hz
Input Current	115VAC	--	--	1.2	A
	230VAC	--	--	0.8	
Inrush Current	115VAC	--	30	--	
	230VAC	--	60	--	
Leakage Current	264VAC	0.25mA RMS max.			
Hot Plug		Unavailable			

Electronic Products

AC/DC Converter KPS-75, 75W, AC/DC 75W Enclosed Switching Power Supply

FEATURES

- Universal 90 - 264VAC or 120 - 370VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -30°C to +70°C
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage, over-temperature protection
- DIN Rail TS-35/7.5 or 15 mountable
- Suitable for small chassis and narrow space installation
- Safety according to BS EN62368



EN62368-1

IEC62368-1

BS EN 62368-1

KPS-75 is AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. This light weight AC-DC converter have an extremely compact design and the standard rail installation for space saving. With good EMC performance, compliant with international EN62368 standards for EMC and safety.

Selection Guide

Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/BIS	KPS-75	76.8	24V/3.2A	24-28	89	1500

Input Specifications

Input Specifications							
Item	Operating Conditions		Min.	Typ..	Max.	Unit	
Input Voltage Range	AC input		90	--	264	VAC	
	DC input		120	--	370	VDC	
Input Voltage Frequency			47	--	63	Hz	
Input Current	115VAC		--	--	2	A	
	230VAC		--	--	1		
Inrush Current	115VAC	Cold start	--	25	--		
	230VAC		--	45	--		
Leakage Current	264VAC		<0.5mA				
Hot Plug			Unavailable				

Electronic Products

AC/DC Converter KPS120, 120W, AC/DC 120W Enclosed Switching

FEATURES

- Universal 90 - 264VAC or 127 - 370VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -20°C to +60°C
- High I/O isolation test voltage up to 4000VAC
- Low ripple & noise
- Output short circuit, over-current, over-voltage, over-temperature protection
- DIN Rail TS-35/7.5 or 15 mountable
- Ultra slim design: suitable for small chassis and narrow space installation



EN62368-1
IEC62368-1
BS EN 62368-1

KPS-120 is AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. This light weight AC-DC converter have an extremely compact design and the standard rail installation for space saving. With good EMC performance, compliant with international, EN/BS EN 62368 standards for EMC and safety

Selection Guide

Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/BIS/BS	KPS-120	120	24V/5A	24-28	88	1200

Input Specifications

Item	Operating Conditions		Min.	Typ..	Max.	Unit	
Input Voltage Range	AC input		90	--	264	VAC	
	DC input		127	--	370	VDC	
Input Voltage Frequency			47	--	63	Hz	
Input Current	115VAC		--	--	2.7	A	
	230VAC		--	--	1.6		
Inrush Current	115VAC	Cold start	--	30	--		
	230VAC		--	55	--		
Leakage Current	240VAC		<1.0mA				
Hot Plug			Unavailable				

Electronic Products

AC/DC Converter KPS-120-P,
120W, AC/DC 120W Enclosed Switching Power Supply

FEATURES

- Universal 85 - 264VAC or 120 - 370 VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40°C to +70°C
- High efficiency up to 94%, high reliability
- DC OK function
- Active PFC
- 150% peak load output for 3 seconds
- DC ON output status indicator LED
- Output short circuit, over-current, over-voltage, over-temperature protection
- Operating altitude up to 5000m
- OVCII
- Indoor use
- Safety according to IEC/BS EN 62368



EN62368-1
IEC62368-1
BS EN 62368-1

KPS-120-P is AC-DC converter series featuring a cost-effective, energy efficient explosion-proof solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise, compliant with international IEC62368 standards for EMC and safety specifications meet IEC/EN/BS EN 62368. This light weight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control equipment, machinery, and all kinds of applications in a harsh environments.

Selection Guide						
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN	KPS-120-P	120	24V/5A	23.5-28.0	94	50,000

Input Specifications						
Item	Operating Conditions		Min.	Typ..	Max.	Unit
Input Voltage Range	Rated input (Certified voltage)		100	--	240	VAC
	AC input		85	--	264	
	DC input		120	--	370	VDC
Input Frequency	Rated AC input		50	--	60	Hz
	AC input		47	--	63	
Input Current	Rated Input		--	--	1.5	A
	115VAC		--	--	1.5	
	230VAC		--	--	0.75	
Inrush Current	115VAC	Cold start	--	15	--	
	230VAC		--	30	--	
Leakage Current	240VAC		<1mA			
Power Factor	115VAC		--	0.98	--	--
	230VAC		--	0.94	--	
Start-up Delay Time	230VAC		--	300	1000	ms
Hot Plug			Unavailable			

Electronic Products

AC/DC Converter KPS-150, 150W, AC/DC DIN-Rail Power Supply

FEATURES

- Universal 85-264VAC (277VAC available) or 120-370VDC (390VDC available) input voltage
- Withstand 300VAC surge input for 5s
- Operating ambient temperature range: -30°C to +70°C (can be start-up at -40°C)
- High I/O isolation test voltage up to 4000VAC (Input - output)
- Over-voltage class III (Designed to meet EN61558 standards)
- Low standby power consumption, low ripple & noise
- High efficiency, high reliability
- Output short circuit, over-current, over-voltage over-temperature protection
- DIN Rail TS35X7.5/ TS35X15 mountable
- Ultra-thin design: width 105mm (6SU)



CE UK

EN62368-1

IEC62368-1

BS EN 62368-1

KPS-120 is AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. This light weight AC-DC converter have an extremely compact design and the standard rail installation for space saving. With good EMC performance, compliant with international, EN/BS EN 62368 standards for EMC and safety

Selection Guide

Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/BIS	KPS-150	150.0	24V/6.25A	21.6 - 29.0	91.5	5000

Note: *The actual adjustment range may extend outside the values stated, care should be exercised to ensure that the output voltage and power levels remain within the published maximum values.

Input Specifications

Item	Operating Conditions	Min.	Typ..	Max.	Unit
Input Voltage Range	AC input	85	--	264	VAC
	DC input	120	--	370	VDC
Input Frequency		47	--	63	Hz
Input Current	115VAC	--	--	3	A
	230VAC	--	--	1.8	
Inrush Current	115VAC	--	35	--	
	230VAC	--	70	--	
Leakage Current	240VAC/50Hz	0.5mA RMS Max.			
Hot Plug		Unavailable			

Electronic Products

AC/DC Converter KPS-240,
240W, AC/DC 240W Enclosed Switching Power Supply

FEATURES

- Universal 85 - 264VAC or 120 - 370VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40°C to +70°C
- High efficiency, high reliability
- DC OK function
- Built-in active PFC function
- 150% peak load output for 3 seconds
- LED indicator for power on
- Output short circuit, over-current, over-voltage, over-temperature protection
- Safety according to IEC//BS EN 62368
- Operating altitude up to 5000m
- OVC II
- Indoor use



EN62368-1
IEC62368-1
BS EN 62368-1

KPS-240-P is AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. This light weight AC-DC converters have an extremely compact design and the standard rail installation for space saving. With good EMC performance, compliant with international IEC/EN/BS EN 62368 standards for EMC and safety.

Selection Guide						
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/BIS	KPS-240-P	240	24V/10A	24.0-28.0	94	40,000

Input Specifications						
Item	Operating Conditions		Min.	Typ..	Max.	Unit
Input Voltage Range	Rated input (Certified voltage)		100	--	240	VAC
	AC input		85	--	264	
	DC input		120	--	370	VDC
Input Voltage Frequency	Rated AC input		50	--	60	Hz
	AC input		47	--	63	
Input Current	Rated Input		--	--	3	A
	115VAC		--	--	3	
	230VAC		--	--	1.5	
Inrush Current	115VAC	Cold start	--	15	--	
	230VAC		--	30	--	
Power Factor	115VAC		--	0.98	--	--
	230VAC		--	0.94	--	
Leakage Current	264VAC		<0.5 mA			
Hot Plug			Unavailable			

Electronic Products

AC/DC Converter KPS-480-P, 480W, AC/DC 480W DIN Rail Power Supply

FEATURES

- Universal 85- 264VAC or 120- 370VDC Input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40°C to +70°C
- The efficiency is up to 94.5%
- High I/O isolation test voltage up to 3000VAC
- DC OK function
- Active PFC, PF > 0.99
- Low ripple & noise
- Output short circuit, over-current, over-voltage, over-temperature protection, input undervoltage protection
- DIN Rail TS-35/7.5 or 15 mountable
- Ultra slim design with 48mm width
- Withstand 305VAC input voltage 5S
- Safety according to IEC/62368, EN61558



EN62368-1
IEC62368-1
BS EN 62368-1

KPS-480-P is AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for industrial control equipment, machinery, and other industrial equipment in a variety of harsh environments. This light weight AC-DC converters have an extremely compact design and the standard rail installation for space saving. With good EMC performance, compliant with international IEC/EN/BS EN 62368, IS13252 (Part1), EN61558 standards for EMC and safety

Selection Guide

Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ	Capacitive Load (μF) Max.
EN/BS	KPS-480-P	480	24V/20A	24-28	94.5	20000

Note: *Under any conditions, the total power of the product should not exceed the 480W rated power, and the output current cannot exceed the rated output current.

Input Specifications

Item	Operating Conditions		Min.	Typ..	Max.	Unit
Input Voltage Range	AC input		85	--	264	VAC
	DC input		120	--	370	VDC
Input Voltage Frequency			47	--	63	Hz
Input Current	115VAC		--	--	5	A
	230VAC		--	--	2.5	
Inrush Current	115VAC	Cold start	--	--	15	
	230VAC		--	--	15	
Power Factor	115VAC		0.99	--	--	--
	230VAC		0.99	--	--	
Leakage Current	240VAC		<0.8mA			
Hot Plug			Unavailable			
Input Undervoltage Protection	Protection start (Input voltage drops from high to low)		--	60	--	VAC
	Protection release (Input voltage rises from low to high)		--	75	--	