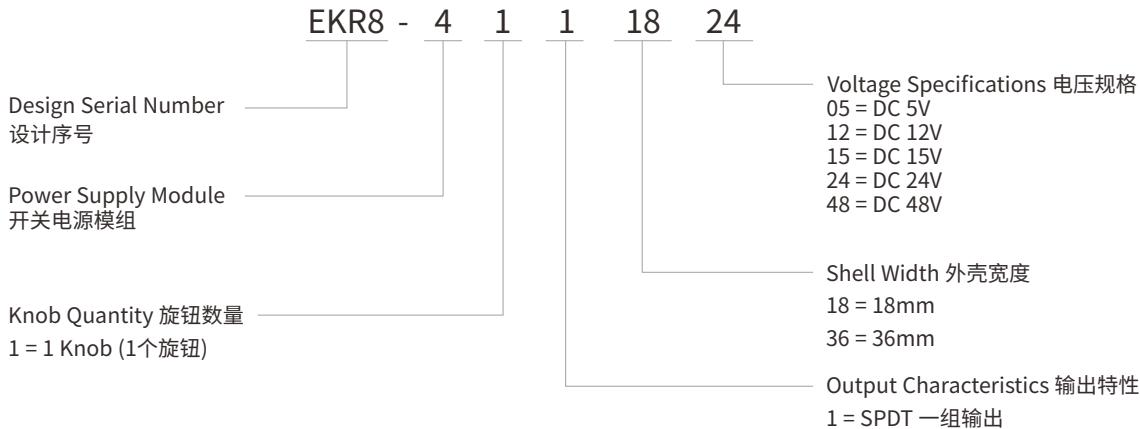


开关电源

Model Naming Rules 型号命名规则



Product Description 产品描述

EKR8-4 series is an economical and ultra-thin rail-type power supply that meets German industrial standards. It is suitable for installation on 35/7.5 or 35/15 rails. In order to save space, the body is designed to be 18mm (1SU) and 36mm (2SU) width. The entire series uses a full range of AC input from 85VAC to 264VAC (277VAC is also applicable), and all comply with the EN61000-3-2 standard on the harmonic current specifications specified by the European Union.

EKR8-4 series is designed with a plastic shell, which can effectively prevent users from electrical hazards. The work efficiency is as high as 87%. Under air circulation, the entire series can work at an ambient temperature of -30 to 70 degrees. It has complete protection functions and complies with relevant certification standards for home automation and industrial control equipment (IEC62368-1, EN61558-2-16), making EKR8 series a highly competitive home and industrial application Power solutions.

EKR8-4系列是一款经济超薄型符合德国工业标准的导轨型电源供应器，适合安装在35/7.5或35/15的导轨上，在允许节约空间机柜内本体被设计为18mm(1SU)和36mm(2SU)宽度，整个系列都采用从85VAC到264VAC全范围交流输入(277VAC也适用)，并均符合EN61000-3-2标准关于欧盟指定的谐波电流规范。

EKR8-4系列是用塑料外壳设计，可以有效的防止用户电气危害，工作效率高达87%，在空气循环条件下整个系列能工作在-30度到70度环境温度中，它具备完整的保护功能且符合家庭自动化、工业控制设备(IEC62368-1, EN61558-2-16)相关认证标准，使EKR8系列成为一个极具竞争力的家庭和工业应用的电源解决方案。

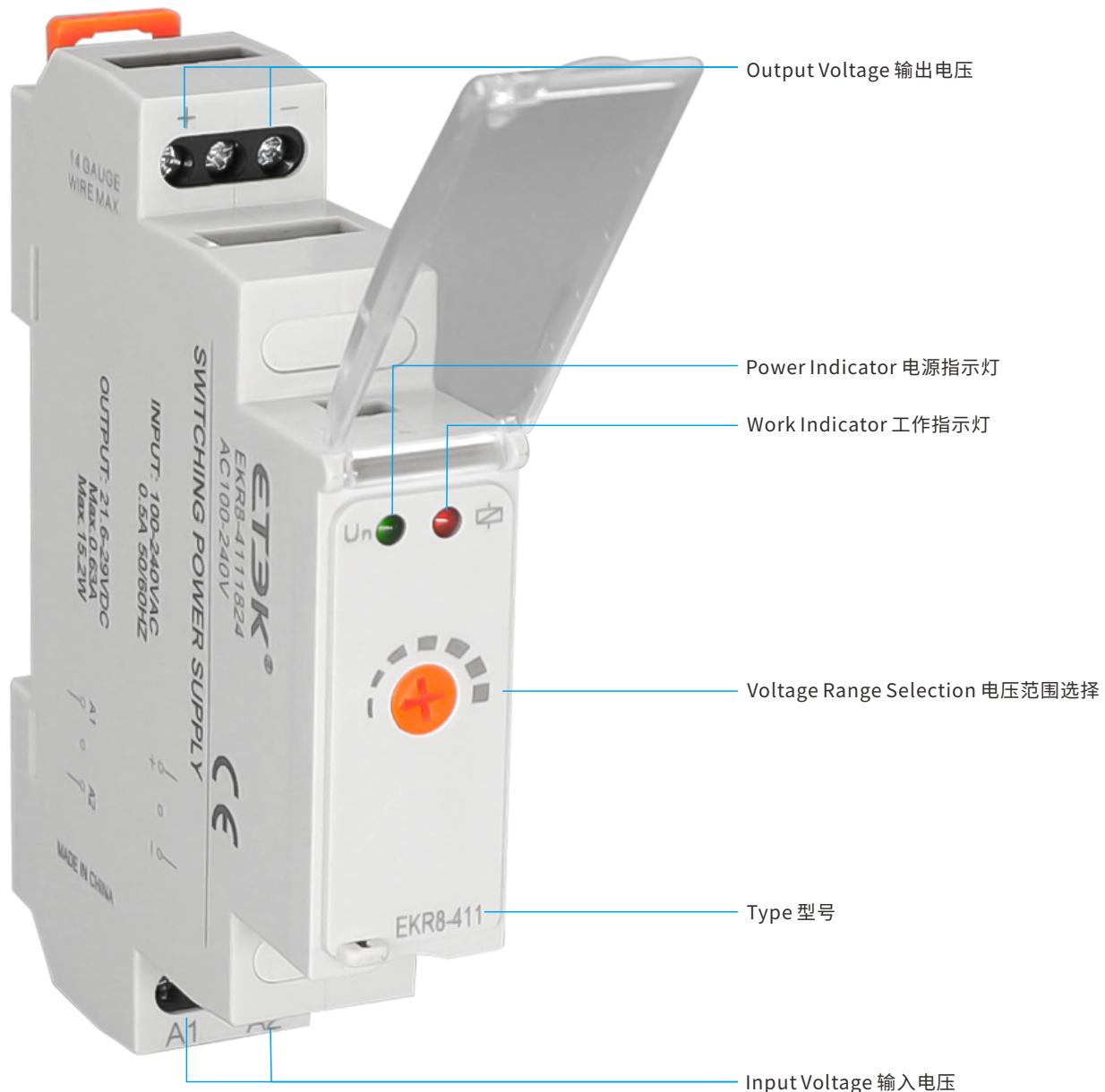
Remark 备注

- Unless otherwise specified, all specification parameters shall be measured at 230VAC input, rated load and ambient temperature of 25 degrees.
- Ripple and noise measurement method: a 12mm2 twisted pair wire is used, and the terminals are connected in parallel with the capacitors of 0.1uf and 47uf, and the measurement is conducted at the bandwidth of 20MHz.
- Accuracy: including setting error, linear adjustment rate and load adjustment rate.
 - 如没有特别说明，所有规格参数均在输入为230VAC、额定负载、25度环境温度下进行量测。
 - 纹波和噪声测量方法：使用一条12mm2双绞线，同时终端要并联0.1uf 和47uf的电容，在20MHz带宽下进行量测。
 - 精度：包含设定误差，线性调整率和负载调整率。

开关电源

Front view: function selector and regulators

前视图：功能选择器和调节器



EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
 International universal input: 85-264VAC (277VAC available)
 No-load loss: <0.3W
 Isolation level: II
 Pass LPS (Limited Power Supply)
 Adjustable DC output voltage
 Natural air cooling (working temperature:-30°C~ +70°C)
 Can be installed on 35/7.5 or 35/15 Rail
 Overvoltage level: III
 LED indicates power on

超薄设计:宽度18mm(1SU) / 36mm(2SU)
 国际通用输入85-264VAC(277VAC可用)

空载损耗<0.3W

隔离等级:II

通过LPS(限功率电源)

直流输出电压可调

保护种类:短路/过负载/过电压

自然风冷(工作温度:-30°C~ +70°C)

可以装在35/7.5或35/15导轨上

过电压等级:III

LED指示电源启动

Application 应用领域:

Home control system 家居控制系统

Building automation 建筑自动化

Industrial control system 工业控制系统

Industrial automation 工业自动化

Mechanical and electrical equipment 机电设备

EKR8-4 Series



Technical Data 技术数据		EKR8-4111805	EKR8-4111812
Output 输出	DC Voltage 直流电压	5V	12V
	Rated Current 额定电流	2.4A	1.25A
	Rated Power 额定功率	12W	15W
	Ripple and Noise (max) 纹波与噪声(最大)	80mVp-p	120mVp-p
	Voltage Adjustment Range 电压调整范围	4.5-5.5V	10.8-13.8V
	Voltage Accuracy 电压精度	±2.0%	±1.0%
	Linear Adjustment Rate 线性调整率	±1.0%	±1.0%
	Load Adjustment Rate 负载调整率	±1.0%	±1.0%
Input 输入	Start and Rise Time 启动、上升时间	2000ms,80ms/230VAC	2000ms,80ms/1 15VAC(Under Full Load 满载时)
	Hold Time 保持时间(Typ.)	300ms/230VAC	12ms/115VAC(Under Full Load 满载时)
	Voltage Range 电压范围	85-264VAC(277VAC Available 可用)	120-370VDC(390VDC Available 可用)
	Frequency Range 频率范围	47-63Hz	
	Efficiency 效率(Typ.)	80%	85%
Protection 保护	Alternating Current 交流电流(Typ.)	0.5A/115VAC	0.25A/230VAC
	Surge Current 浪涌电流(Typ.)	Cold start 冷启动 25A/115VAC	45A/230VAC
Overload 过载	110-145% of rated output power 额定输出功率 When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式, 负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式, 负载异常条件移除后可自动恢复。		
	Over-voltage 过压		
Over-voltage 过压	5.75 - 6.75V	14.2 - 16.2V	
	Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出, 通过齐纳二极管钳位		

Dimensions 外形尺寸图: in 英寸 (mm 毫米)	Wiring Diagrams 接线图
	<p>Output 输出</p> <p>EKR8-4111805</p> <p>Output 输出</p> <p>EKR8-4111812</p> <p>Input 输入</p> <p>EKR8-4111805</p> <p>Input 输入</p> <p>EKR8-4111812</p>

EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
 International universal input: 85-264VAC (277VAC available)
 No-load loss: <0.3W
 Isolation level: II
 Pass LPS (Limited Power Supply)
 Adjustable DC output voltage
 Natural air cooling (working temperature:-30°C~ +70°C)
 Can be installed on 35/7.5 or 35/15 Rail

Overvoltage level: III
 LED indicates power on
 超薄设计:宽度18mm(1SU) / 36mm(2SU)
 国际通用输入85-264VAC(277VAC可用)
 空载损耗<0.3W
 隔离等级:II
 通过LPS(限功率电源)
 直流输出电压可调
 保护种类:短路/过负载/过电压
 自然风冷(工作温度:-30°C~ +70°C)
 可以装在35/7.5或35/15导轨上
 过电压等级:III
 LED指示电源启动

Application 应用领域:

Home control system 家居控制系统
 Building automation 建筑自动化
 Industrial control system 工业控制系统
 Industrial automation 工业自动化
 Mechanical and electrical equipment 机电设备

EKR8-4 Series



Technical Data 技术数据		EKR8-4111815	EKR8-4111824
Output 输出	DC Voltage 直流电压	15V	24V
	Rated Current 额定电流	1A	0.63A
	Rated Power 额定功率	15W	15.2W
	Ripple and Noise (max) 纹波与噪声(最大)	120mVp-p	150mVp-p
	Voltage Adjustment Range 电压调整范围	13.5- 18V	21.6 - 29V
	Voltage Accuracy 电压精度	±1.0%	±1.0%
	Linear Adjustment Rate 线性调整率	±1.0%	±1.0%
	Load Adjustment Rate 负载调整率	±1.0%	±1.0%
	Start and Rise Time 启动、上升时间	2000ms,80ms/230VAC	2000ms,80ms/115VAC(Under Full Load 满载时)
Input 输入	Hold Time 保持时间(Typ.)	300ms/230VAC	12ms/115VAC(Under Full Load 满载时)
	Voltage Range 电压范围	85 - 264VAC(277VAC Available 可用)	120 - 370VDC(390VDC Available 可用)
	Frequency Range 频率范围	47- 63Hz	
	Efficiency 效率(Typ.)	85.5%	86%
	Alternating Current 交流电流(Typ.)	0.5A/115VAC	0.25A/230VAC
Protection 保护	Surge Current 浪涌电流(Typ.)	Cold start 冷启动 25A/115VAC	45A/230VAC
	Overload 过载	110-145% of rated output power 额定输出功率 When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式,负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式,负载异常条件移除后可自动恢复。	
	Over-voltage 过压	18.8 - 22.5V	30 - 36V
		Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出,通过齐纳二极管钳位	

Dimensions 外形尺寸图: in 英寸 (mm 毫米)	Wiring Diagrams 接线图
	<p>Output 输出</p> <p>EKR8-4111815</p> <p>Input 输入</p> <p>EKR8-4111824</p>

EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
 International universal input: 85-264VAC (277VAC available)
 No-load loss: <0.3W
 Isolation level: II
 Pass LPS (Limited Power Supply)
 Adjustable DC output voltage
 Natural air cooling (working temperature:-30°C~ +70°C)
 Can be installed on 35/7.5 or 35/15 Rail

Overvoltage level: III
 LED indicates power on
 超薄设计:宽度18mm(1SU) / 36mm(2SU)

国际通用输入85-264VAC(277VAC可用)
 空载损耗<0.3W

隔离等级:II

通过LPS(限功率电源)

直流输出电压可调

保护种类:短路/过负载/过电压

自然风冷(工作温度:-30°C~ +70°C)

可以装在35/7.5或35/15导轨上

过电压等级:III

LED指示电源启动

Application 应用领域:

Home control system 家居控制系统

Building automation 建筑自动化

Industrial control system 工业控制系统

Industrial automation 工业自动化

Mechanical and electrical equipment 机电设备

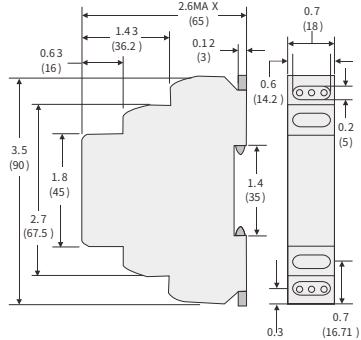
EKR8-4 Series



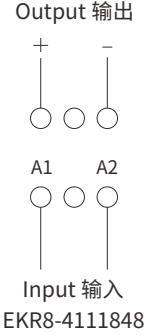
Technical Data 技术数据

EKR8-4111848	
Output	DC Voltage 直流电压
	48V
	Rated Current 额定电流
	0.32A
	Rated Power 额定功率
	15.4W
	Ripple and Noise (max) 纹波与噪声(最大)
	240mVp-p
Output	Voltage Adjustment Range 电压调整范围
	43.2 - 55.2V
	Voltage Accuracy 电压精度
	±1.0%
	Linear Adjustment Rate 线性调整率
	±1.0%
	Load Adjustment Rate 负载调整率
	±1.0%
	Start and Rise Time 启动、上升时间
	2000ms,80ms/230VAC 2000ms,80ms/115VAC(Under Full Load 满载时)
	Hold Time 保持时间(Typ.)
	300ms/230VAC 12ms/115VAC(Under Full Load 满载时)
Input	Voltage Range 电压范围
	85-264VAC(277VAC Available 可用) 120-370VDC(390VDC Available 可用)
Input	Frequency Range 频率范围
	47 - 63Hz
Input	Efficiency 效率(Typ.)
	87%
	Alternating Current 交流电流(Typ.)
	0.5A/115VAC 0.25A/230VAC
	Surge Current 浪涌电流(Typ.)
	Cold start 冷启动 25A/115VAC 45A/230VAC
Protection	Overload 过载
	110-145% of rated output power 额定输出功率 When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式,负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式,负载异常条件移除后可自动恢复。
	Over-voltage 过压
	56.5 - 64.8V Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出,通过齐纳二极管钳位

Dimensions 外形尺寸图:in 英寸(mm 毫米)



Wiring Diagrams 接线图



EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
International universal input: 85-264VAC (277VAC available)
No-load loss: <0.3W

Isolation level: II

Pass LPS (Limited Power Supply)

Adjustable DC output voltage

Natural air cooling (working temperature:-30°C~ +70°C)

Can be installed on 35/7.5 or 35/15 Rail

Oversupply level: III

LED indicates power on

超薄设计:宽度18mm(1SU) / 36mm(2SU)

国际通用输入85-264VAC(277VAC可用)

空载损耗<0.3W

隔离等级:II

通过LPS(限功率电源)

直流输出电压可调

保护种类:短路/过负载/过电压

自然风冷(工作温度:-30°C~ +70°C)

可以装在35/7.5或35/15导轨上

过电压等级:III

LED指示电源启动

Application 应用领域:

Home control system 家居控制系统

Building automation 建筑自动化

Industrial control system 工业控制系统

Industrial automation 工业自动化

Mechanical and electrical equipment 机电设备

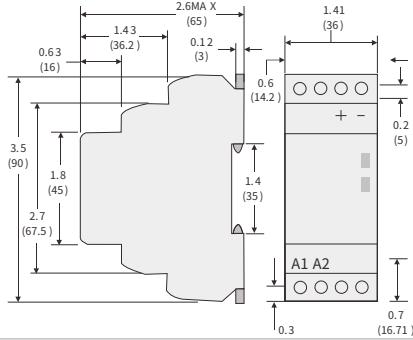
EKR8-4 Series



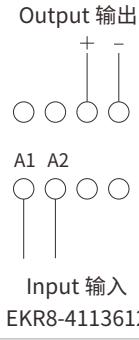
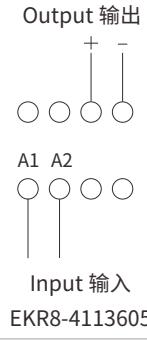
Technical Data 技术数据

	EKR8-4113605	EKR8-4113612
Output 输出	DC Voltage 直流电压	5V
	Rated Current 额定电流	3A
	Rated Power 额定功率	15W
	Ripple and Noise (max) 纹波与噪声(最大)	80mVp-p
	Voltage Adjustment Range 电压调整范围	4.5 - 5.5V
	Voltage Accuracy 电压精度	±2.0%
	Linear Adjustment Rate 线性调整率	±1.0%
	Load Adjustment Rate 负载调整率	±1.0%
	Start and Rise Time 启动、上升时间	2000ms,80ms/230VAC 2000ms,80ms/115VAC(Under Full Load 满载时)
Input 输入	Hold Time 保持时间(Typ.)	300ms/230VAC 12ms/115VAC(Under Full Load 满载时)
	Voltage Range 电压范围	85-264VAC(277VAC Available 可用) 120-370VDC(390VDC Available 可用)
	Frequency Range 频率范围	47 - 63Hz
	Efficiency 效率(Typ.)	82% 88%
	Alternating Current 交流电流(Typ.)	0.5A/115VAC 0.25A/230VAC
Protection 保护	Surge Current 浪涌电流(Typ.)	Cold start 冷启动 25A/115VAC 45A/230VAC
	Overload 过载	110-145% of rated output power 额定输出功率 When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式,负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式,负载异常条件移除后可自动恢复。
	Over-voltage 过压	5.75-7.5V 15-18V Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出,通过齐纳二极管钳位

Dimensions 外形尺寸图:in 英寸(mm 毫米)



Wiring Diagrams 接线图



EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
 International universal input: 85-264VAC (277VAC available)
 No-load loss: <0.3W
 Isolation level: II
 Pass LPS (Limited Power Supply)
 Adjustable DC output voltage
 Natural air cooling (working temperature: -30°C ~ +70°C)
 Can be installed on 35/7.5 or 35/15 Rail

Overvoltage level: III
 LED indicates power on
 超薄设计:宽度18mm(1SU) / 36mm(2SU)
 国际通用输入85-264VAC(277VAC可用)
 空载损耗<0.3W
 隔离等级:II
 通过LPS(限功率电源)
 直流输出电压可调
 保护种类:短路/过负载/过电压
 自然风冷(工作温度:-30°C ~ +70°C)
 可以装在35/7.5或35/15导轨上
 过电压等级:III
 LED指示电源启动

Application 应用领域:

Home control system 家居控制系统
 Building automation 建筑自动化
 Industrial control system 工业控制系统
 Industrial automation 工业自动化
 Mechanical and electrical equipment 机电设备

EKR8-4 Series



Technical Data 技术数据		EKR8-4113615	EKR8-4113624
Output 输出	DC Voltage 直流电压	15V	24V
	Rated Current 额定电流	2A	1.5A
	Rated Power 额定功率	30W	36W
	Ripple and Noise (max) 纹波与噪声(最大)	120mVp-p	150mVp-p
	Voltage Adjustment Range 电压调整范围	13.5 - 18V	21.6 - 29V
	Voltage Accuracy 电压精度	±1.0%	±1.0%
	Linear Adjustment Rate 线性调整率	±1.0%	±1.0%
	Load Adjustment Rate 负载调整率	±1.0%	±1.0%
Input 输入	Start and Rise Time 启动、上升时间	2000ms,80ms/230VAC	2000ms,80ms/115VAC(Under Full Load 满载时)
	Hold Time 保持时间(Typ.)	300ms/230VAC	12ms/115VAC(Under Full Load 满载时)
	Voltage Range 电压范围	85-264VAC(277VAC Available 可用)	120-370VDC(390VDC Available 可用)
	Frequency Range 频率范围	47 - 63Hz	
	Efficiency 效率(Typ.)	89%	89%
Protection 保护	Alternating Current 交流电流(Typ.)	0.5A/115VAC	0.25A/230VAC
	Surge Current 浪涌电流(Typ.)	Cold start 冷启动 25A/115VAC	45A/230VAC
		110-145% of rated output power 额定输出功率	
		When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式,负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式,负载异常条件移除后可自动恢复。	
		Overload 过载	18.8 - 22.5V 30-36V
		Over-voltage 过压	Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出,通过齐纳二极管钳位

Dimensions 外形尺寸图: in 英寸 (mm 毫米)	Wiring Diagrams 接线图
	<p>Output 输出</p> <p>A1 A2</p> <p>Input 输入</p> <p>A1 A2</p> <p>EKR8-4113615</p> <p>EKR8-4113624</p>

EKR8-4 Series Switching Power Supply

ETEK®

开关电源

Switching Power Supply

开关电源

Product Characteristics 产品特性

Ultra-thin design: width 18mm(1SU) / 36mm(2SU)
 International universal input: 85-264VAC (277VAC available)
 No-load loss: <0.3W
 Isolation level: II
 Pass LPS (Limited Power Supply)
 Adjustable DC output voltage
 Natural air cooling (working temperature:-30°C~ +70°C)
 Can be installed on 35/7.5 or 35/15 Rail
 Overvoltage level: III
 LED indicates power on

超薄设计:宽度18mm(1SU) / 36mm(2SU)
 国际通用输入85-264VAC(277VAC可用)

空载损耗<0.3W

隔离等级:II

通过LPS(限功率电源)

直流输出电压可调

保护种类:短路/过负载/过电压

自然风冷(工作温度:-30°C~ +70°C)

可以装在35/7.5或35/15导轨上

过电压等级:III

LED指示电源启动

Application 应用领域:

Home control system 家居控制系统

Building automation 建筑自动化

Industrial control system 工业控制系统

Industrial automation 工业自动化

Mechanical and electrical equipment 机电设备

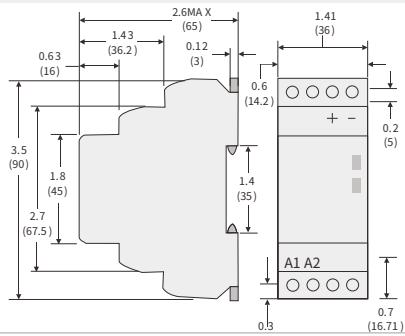
EKR8-4 Series



Technical Data 技术数据

EKR8-4113648	
DC Voltage 直流电压	48V
Rated Current 额定电流	0.75A
Rated Power 额定功率	36W
Ripple and Noise (max) 纹波与噪声(最大)	240mVp-p
Voltage Adjustment Range 电压调整范围	43.2 - 55.2V
Voltage Accuracy 电压精度	±1.0%
Linear adjustment Rate 线性调整率	±1.0%
Load Adjustment Rate 负载调整率	±1.0%
Start and Rise Time 启动、上升时间	2000ms,80ms/230VAC 2000ms,80ms/115VAC(Under Full Load 满载时)
Hold Time 保持时间(Typ.)	300ms/230VAC 12ms/115VAC(Under Full Load 满载时)
Voltage Range 电压范围	85-264VAC(277VAC Available 可用) 120-370VDC(390VDC Available 可用)
Frequency Range 频率范围	47 - 63Hz
Efficiency 效率(Typ.)	90%
Alternating Current 交流电流(Typ.)	0.5A/115VAC 0.25A/230VAC
Surge Current 浪涌电流(Typ.)	Cold start 冷启动 25A/115VAC 45A/230VAC
Overload 过载	110-145% of rated output power 额定输出功率 When the output voltage is less than 50%, it is in hiccup mode, and it can automatically recover after the abnormal load condition is removed. When the output voltage is 50%-100%, it is in constant current mode, and it can automatically recover after the abnormal load condition is removed. 输出电压<50%时为打嗝模式,负载异常条件移除后可自动恢复。 输出电压50%-100%时为恒定电流模式,负载异常条件移除后可自动恢复。
Over-voltage 过压	56.5 - 64.8V Protection mode: Turn off the output, clamp by the Zener diode 保护模式:关断输出,通过齐纳二极管钳位

Dimensions 外形尺寸图: in 英寸 (mm 毫米)



Wiring Diagrams 接线图

