

Ultrathin Enclosed Power Supply

30mm Ultrathin / Cost-effective Solution



ESA Series

35W / 50W / 75W / 100W

150W / 200W / 250W / 350W

power a Safe and Green world
Since 1992

Main Features

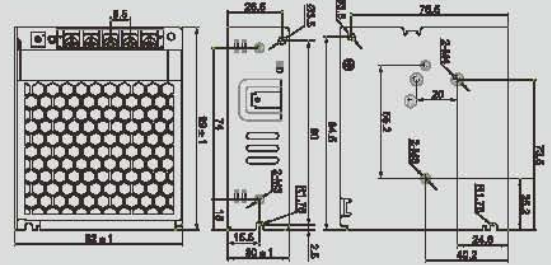
- Compact (30mm Height), Economy
- Low standby power consumption
- Fans with temperature control for longer lifetime
- Hiccup mode for short circuit protection
- Surface & Din-rail mounting
- Compliance with Energy Star standard
- Operating at 5000m altitude
- 5G vibration standard
- CE certificate

Application

Widely applying to industrial automation, security and monitoring, textile machinery, etc.



ESA系列 ESA Series



产品特性

- 全范围AC输入
- 超薄型, 30mm高度
- 空载功耗 $\leq 0.3W$, 符合能源之星V级标准
- 工作海拔高达5000米
- 5G振动
- 过载 / 过压 / 短路保护
- 自然风冷
- 2年质保

Product features

- Universal AC input / full range
- Ultra-thin, 30mm height
- No load power consumption $\leq 0.3W$, meet the requirements of Energy Star 5.0
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit
- Air cooling
- 2 years warranty

技术特性

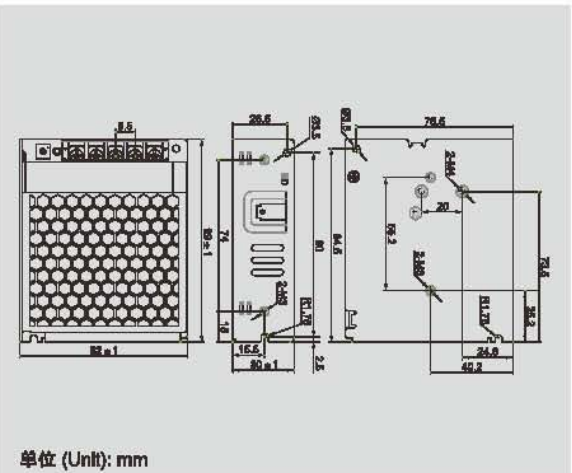
- 输入电压 88~264Vac
- 输入频率 47~63Hz
- 冲击电流 35A@230Vac
20A@110Vac, 满载冷态
- 保持时间 >30ms@230Vac 满载
- 过载保护 110%~150% 自动恢复
- 过压保护 125%~145%
- 运行温度 -20°C~70°C
(参考降额曲线)
- 安全标准 UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC标准 EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- 绝缘电压 I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- 重量 0.2kg/pcs

Specifications

- Input voltage 88~264Vac
- Input frequency 47~63Hz
- Inrush current 35A@230Vac
20A@110Vac, full load cold start
- Hold-up time >30ms@230Vac full load
- Overload protection 110%~150% auto-recovery
- Over voltage protection 125%~145%
- Operating temperature -20°C~70°C
(refer to output load derating curve)
- Safety standard UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC standard EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- Withstand voltage I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- Weight 0.2kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-35-12	12V, 3A	$\pm 1\%$	100mV	85%	$\pm 0.5\%$	12V~14V
ESA-35-24	24V, 1.5A	$\pm 1\%$	150mV	88%	$\pm 0.5\%$	24V~28V
ESA-35-48	48V, 0.8A	$\pm 1\%$	200mV	88%	$\pm 0.5\%$	48V~55V

ESA系列 ESA Series



单位 (Unit): mm

产品特性

全范围AC输入
超薄型, 30mm高度
空载功耗 $\leq 0.3W$, 符合能源之星V级标准
工作海拔高达5000米
5G振动
过载 / 过压 / 短路保护
自然风冷
2年质保

Product features

Universal AC input / full range
Ultra-thin, 30mm height
No load power consumption $\leq 0.3W$, meet the requirements of Energy Star 5.0
Operating altitude up to 5km
5G vibration
Protection: Overload / Over voltage / Short circuit
Air cooling
2 years warranty

技术特性

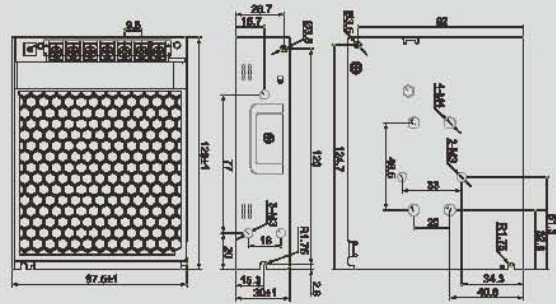
输入电压 88~264Vac
输入频率 47~63Hz
冲击电流 35A@230Vac
20A@110Vac, 满载冷态
保持时间 >30ms@230Vac 满载
过载保护 110%~150% 自动恢复
过压保护 125%~145%
运行温度 -20°C~70°C
(参考降额曲线)
安全标准 UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
EMC标准 EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
绝缘电压 I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
MTBF 300,000 hours at 25°C
重量 0.2kg/pcs

Specifications

Input voltage 88~264Vac
Input frequency 47~63Hz
Inrush current 35A@230Vac
20A@110Vac, full load cold start
Hold-up time >30ms@230Vac full load
Overload protection 110%~150% auto-recovery
Over voltage protection 125%~145%
Operating temperature -20°C~70°C
(refer to output load derating curve)
Safety standard UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
EMC standard EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
Withstand voltage I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
MTBF 300,000 hours at 25°C
Weight 0.2kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-50-12	12V, 4.2A	±1%	100mV	85%	±0.5%	10.8V~13.2V
ESA-50-24	24V, 2.2A	±1%	150mV	88%	±0.5%	21.6V~26.4V
ESA-50-48	48V, 1.1A	±1%	200mV	88%	±0.5%	43.2V~52.8V

ESA系列 ESA Series



单位 (Unit): mm

产品特性

- 全范围AC输入
- 超薄型, 30mm高度
- 空载功耗 $\leq 0.4W$, 符合能源之星V级标准
- 工作海拔高达5000米
- 5G振动
- 过载 / 过压 / 短路保护
- 自然风冷
- 2年质保

Product features

- Universal AC input / full range
- Ultra-thin, 30mm height
- No load power consumption $\leq 0.4W$, meet the requirements of Energy Star 5.0
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit
- Air cooling
- 2 years warranty

技术特性

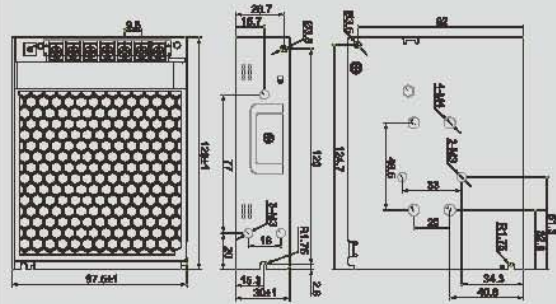
- 输入电压 88~264Vac
- 输入频率 47~63Hz
- 冲击电流 50A@230Vac
20A@110Vac, 满载冷态
- 保持时间 >30ms@230Vac 满载
- 过载保护 110%~150% 自动恢复
- 过压保护 125%~145%
- 运行温度 -20°C~70°C
(参考降额曲线)
- 安全标准 UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC标准 EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- 绝缘电压 I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- 重量 0.3kg/pcs

Specifications

- Input voltage 88~264Vac
- Input frequency 47~63Hz
- Inrush current 50A@230Vac
20A@110Vac, full load cold start
- Hold-up time >30ms@230Vac full load
- Overload protection 110%~150% auto-recovery
- Over voltage protection 125%~145%
- Operating temperature -20°C~70°C
(refer to output load derating curve)
- Safety standard UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC standard EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- Withstand voltage I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- Weight 0.3kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-75-12	12V, 6.3A	$\pm 1\%$	100mV	85%	$\pm 0.5\%$	10.8V~13.2V
ESA-75-24	24V, 3.2A	$\pm 1\%$	150mV	88%	$\pm 0.5\%$	21.6V~26.4V
ESA-75-48	48V, 1.6A	$\pm 1\%$	200mV	88%	$\pm 0.5\%$	43.2V~52.8V

ESA系列 ESA Series



单位 (Unit): mm

产品特性

- 全范围AC输入
- 超薄型, 30mm高度
- 空载功耗 $\leq 0.4W$, 符合能源之星V级标准
- 工作海拔高达5000米
- 5G振动
- 过载 / 过压 / 短路保护
- 自然风冷
- 2年质保

Product features

- Universal AC input / full range
- Ultra-thin, 30mm high
- No load power consumption $\leq 0.4W$, meet the requirements of Energy Star 5.0
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit
- Air cooling
- 2 years warranty

技术特性

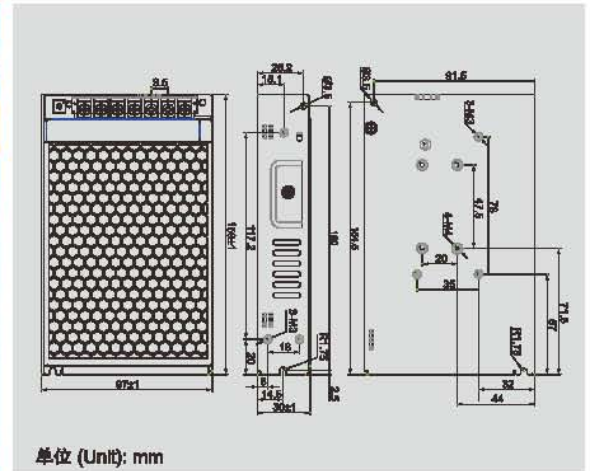
- 输入电压 88~264Vac
- 输入频率 47~63Hz
- 冲击电流 50A@230Vac
20A@110Vac, 满载冷态
- 保持时间 >30ms@230Vac 满载
- 过载保护 110%~150% 自动恢复
- 过压保护 125%~145%
- 运行温度 -20°C~70°C
(参考降额曲线)
- 安全标准 UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC标准 EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- 绝缘电压 I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- 重量 0.3kg/pcs

Specifications

- Input voltage 88~264Vac
- Input frequency 47~63Hz
- Inrush current 50A@230Vac
20A@110Vac, full load cold start
- Hold-up time >30ms@230Vac full load
- Overload protection 110%~150% auto-recovery
- Over voltage protection 125%~145%
- Operating temperature -20°C~70°C
(refer to output load derating curve)
- Safety standard UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC standard EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- Withstand voltage I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- Weight 0.3kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-100-12	12V, 8.3A	$\pm 1\%$	100mV	85%	$\pm 0.5\%$	10.8V~13.2V
ESA-100-24	24V, 4.5A	$\pm 1\%$	150mV	87%	$\pm 0.5\%$	21.6V~26.4V
ESA-100-48	48V, 2.1A	$\pm 1\%$	200mV	88%	$\pm 0.5\%$	43.2V~52.8V

ESA系列 ESA Series



产品特性

- 全范围AC输入
- 超薄型, 30mm高度
- 空载功耗 $\leq 0.5W$, 符合能源之星V级标准
- 工作海拔高达5000米
- 5G振动
- 过载 / 过压 / 短路保护
- 自然风冷
- 2年质保

Product features

- Universal AC input / full range
- Ultra-thin, 30mm height
- No load power consumption $\leq 0.5W$, meet the requirements of Energy Star 5.0
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit
- Air cooling
- 2 years warranty

技术特性

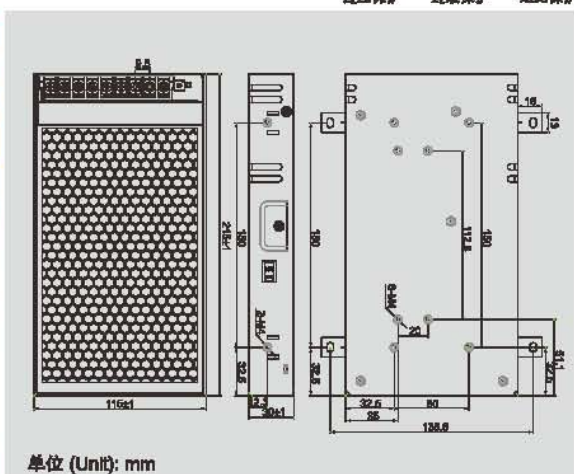
- 输入电压 88~264Vac
- 输入频率 47~63Hz
- 冲击电流 35A@230Vac
20A@110Vac, 满载冷态
- 保持时间 >20ms@230Vac 满载
- 过载保护 110%~150% 自动恢复
- 过压保护 125%~145%
- 运行温度 -20°C~70°C
(参考降额曲线)
- 安全标准 UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC标准 EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- 绝缘电压 I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- 重量 0.5kg/pcs

Specifications

- Input voltage 88~264Vac
- Input frequency 47~63Hz
- Inrush current 35A@230Vac
20A@110Vac, full load cold start
- Hold-up time >20ms@230Vac full load
- Overload protection 110%~150% auto-recovery
- Over voltage protection 125%~145%
- Operating temperature -20°C~70°C
(refer to output load derating curve)
- Safety standard UL60950-1, CB (IEC60950-1),
CCC GB4943.1:2011 approved
- EMC standard EN55022 (CISPR22) Class A,
EN61000-3-2,-3,
EN61000-4-2,3,4,5,6,8,11,
EN55024, EN61000-6-1
- Withstand voltage I/P-O/P: 1.5kVac, 1min
I/P-FG: 1.5kVac, 1min
O/P-FG: 0.5kVac, 1min
- MTBF 300,000 hours at 25°C
- Weight 0.5kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-150-12	12V, 12.5A	$\pm 1\%$	100mV	86%	$\pm 0.5\%$	10.8V~13.2V
ESA-150-24	24V, 6.5A	$\pm 1\%$	100mV	88%	$\pm 0.5\%$	21.6V~26.4V
ESA-150-48	48V, 3.2A	$\pm 1\%$	200mV	88%	$\pm 0.5\%$	43.2V~52.8V

ESA系列 ESA Series



产品特性

- 全范围AC输入
- 超薄型, 30mm高度
- 空载功耗 $\leq 0.75W$
- 工作海拔高达5000米
- 5G震动
- 过载 / 过压 / 短路 / 过温保护
- 自然风冷
- 2年质保

Product features

- Universal AC input / full range
- Ultra-thin, 30mm height
- No load power consumption $\leq 0.75W$
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit / Over temperature
- Air cooling
- 2 years warranty

技术特性

- 输入电压: 88~264Vac
- 输入频率: 47~63Hz
- 冲击电流: 35A@230Vac, 20A@110Vac, 满载冷态
- 保持时间: >16ms@230Vac 满载
- 过载保护: 105%~150% 自动恢复
- 过压保护: 115%~150%
- 运行温度: -20°C~70°C (参考降额曲线)
- 安全标准: UL60950-1, CB (IEC60950-1), CCC GB4943.1:2011 approved
- EMC标准: EN60950-1, GB4943-2001
- 绝缘电压: I/P-O/P: 1.5kVac, 1min; I/P-FG: 1.5kVac, 1min; O/P-FG: 0.5kVac, 1min
- MTBF: 300,000 hours at 25°C
- 重量: 1kg/pcs

Specifications

- Input voltage: 88~264Vac
- Input frequency: 47~63Hz
- Inrush current: 35A@230Vac, 20A@110Vac, full load cold start
- Hold-up time: >16ms@230Vac full load
- Overload protection: 105%~150% auto-recovery
- Over voltage protection: 115%~150%
- Operating temperature: -20°C~70°C (refer to output load derating curve)
- Safety standard: UL60950-1, CB (IEC60950-1), CCC GB4943.1:2011 approved
- EMC standard: EN60950-1, GB4943-2001
- Withstand voltage: I/P-O/P: 1.5kVac, 1min; I/P-FG: 1.5kVac, 1min; O/P-FG: 0.5kVac, 1min
- MTBF: 300,000 hours at 25°C
- Weight: 1kg/pcs

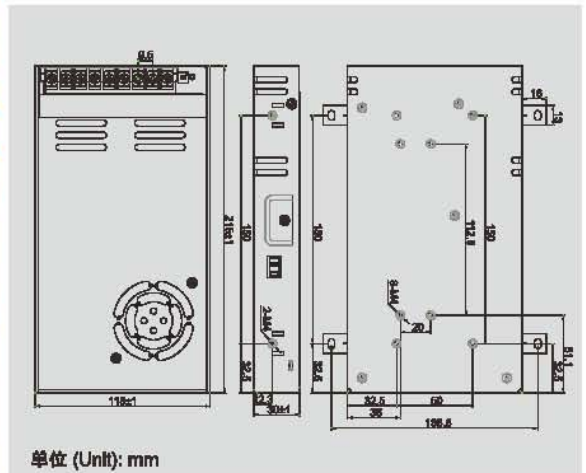
P/N 产品型号	DC Output 输出	Tol. 公差	R & N 纹波 & 噪声	Eff. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-200-12	12V, 17A	$\pm 1\%$	150mV	87.5%	$\pm 1\%$	10.8V~13.2V
ESA-200-24	24V, 8.8A	$\pm 1\%$	150mV	89.5%	$\pm 0.5\%$	21.6V~26.4V
ESA-200-48	48V, 4.4A	$\pm 1\%$	200mV	90%	$\pm 0.5\%$	43.2V~52.8V

超薄平板开关电源 ULTRATHIN ENCLOSED POWER SUPPLY

ESA系列 ESA Series



250W 单路输出
250W Single Output
 Size (L × W × H):
 215mm × 115mm × 30mm



产品特性

AC输入, 手开关转换
 超薄型, 30mm高度
 空载功耗 ≤ 0.75W
 工作海拔高达5000米
 5G振动
 过载 / 过压 / 短路 / 过温保护
 温控风扇冷却
 2年质保

Product features

AC input, selectable by switch
 Ultra-thin, 30mm high
 No load power consumption ≤ 0.75W
 Operating altitude up to 5km
 5G vibration
 Protection: Overload / Over voltage / Short circuit / Over temperature
 Cooling by temperature-control fan
 2 years warranty

技术特性

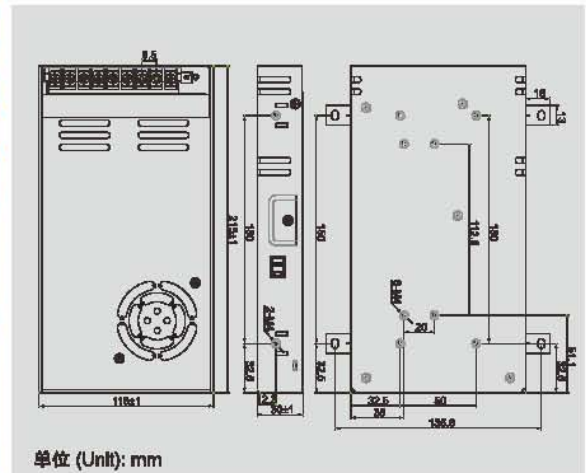
输入电压 90~132Vac; 180~264Vac
 输入频率 47~63Hz
 冲击电流 35A@230Vac
 20A@110Vac, 满载冷态
 保持时间 >16ms@230Vac 满载
 过载保护 105%~150% 自动恢复
 过压保护 115%~150%
 运行温度 -20℃~70℃
 (参考降额曲线)
 安全标准 UL60950-1, CB (IEC60950-1),
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 EMC标准 EN60950-1, GB4943-2001
 绝缘电压 I/P-O/P: 1.5kVac, 1min
 I/P-FG: 1.5kVac, 1min
 O/P-FG: 0.5kVac, 1min
 MTBF 300,000 hours at 25℃
 重量 1kg/pcs

Specifications

Input voltage 90~132Vac; 180~264Vac
 Input frequency 47~63Hz
 Inrush current 35A@230Vac
 20A@110Vac, full load cold start
 Hold-up time >16ms@230Vac full load
 Overload protection 105%~150% auto-recovery
 Over voltage protection 115%~150%
 Operating temperature -20℃~70℃
 (refer to output load derating curve)
 Safety standard UL60950-1, CB (IEC60950-1),
 CCC GB4943.1:2011 approved
 EMC standard EN60950-1, GB4943-2001
 Withstand voltage I/P-O/P: 1.5kVac, 1min
 I/P-FG: 1.5kVac, 1min
 O/P-FG: 0.5kVac, 1min
 MTBF 300,000 hours at 25℃
 Weight 1kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-250-12	12V, 20.8A	±1%	150mV	86.5%	±1%	10.8V~13.2V
ESA-250-24	24V, 10.5A	±1%	150mV	89%	±0.5%	21.6V~26.4V
ESA-250-48	48V, 5.2A	±1%	200mV	89.5%	±0.5%	43.2V~52.8V

ESA系列 ESA Series



产品特性

- AC输入, 手开关转换
- 超薄型, 30mm高度
- 空载功耗≤0.75W
- 工作海拔高达5000米
- 5G振动
- 过载 / 过压 / 短路 / 过温保护
- 温控风扇冷却
- 2年质保

Product features

- AC input, selectable by switch
- Ultra-thin, 30mm high
- No load power consumption ≤ 0.75W
- Operating altitude up to 5km
- 5G vibration
- Protection: Overload / Over voltage / Short circuit / Over temperature
- Cooling by temperature-control fan
- 2 years warranty

技术特性

输入电压	90~132Vac; 180~264Vac
输入频率	47~63Hz
冲击电流	35A@230Vac 20A@110Vac, 满载冷态
保持时间	>16ms@230Vac 满载
过载保护	105%~150% 自动恢复
过压保护	115%~150%
运行温度	-20℃~70℃ (参考降额曲线)
安全标准	UL60950-1, CB (IEC60950-1), CCC GB4943.1:2011 approved
EMC标准	EN60950-1, GB4943-2001
绝缘电压	I/P-O/P: 1.5kVac, 1min I/P-FG: 1.5kVac, 1min O/P-FG: 0.5kVac, 1min
MTBF	300,000 hours at 25℃
重量	1kg/pcs

Specifications

Input voltage	90~132Vac; 180~264Vac
Input frequency	47~63Hz
Inrush current	35A@230Vac 20A@110Vac, full load cold start
Hold-up time	>16ms@230Vac full load
Overload protection	105%~150% auto-recovery
Over voltage protection	115%~150%
Operating temperature	-20℃~70℃ (refer to output load derating curve)
Safety standard	UL60950-1, CB (IEC60950-1), CCC GB4943.1:2011 approved
EMC standard	EN60950-1, GB4943-2001
Withstand voltage	I/P-O/P: 1.5kVac, 1min I/P-FG: 1.5kVac, 1min O/P-FG: 0.5kVac, 1min
MTBF	300,000 hours at 25℃
Weight	1kg/pcs

P/N 产品型号	DC Output 输出	Tol. 容差	R & N 纹波 & 噪声	Effi. 效率	Load Regulation 负载调整率	DC Adjustment Range DC可调范围
ESA-350-12	12V, 29A	±1%	150mV	85%	±1%	10.8V~13.2V
ESA-350-24	24V, 14.6A	±1%	150mV	88%	±0.5%	21.6V~26.4V
ESA-350-48	48V, 7.3A	±1%	200mV	89%	±0.5%	43.2V~52.8V