微型不间断电源(风光储型)

Micro Uninterruptible Power Supply Solution (Wind, Solar and Energy Storage Type)

WS-EPW 系列

WS-EPW Series

1、系统简介 System Introduction

本电源内置威胜自主研发的主备双回路自切换装置,默认通过市电作为主回路、微型不间断电源作为备用回路为物联设备如表计、终端、安防、信号中继等负载供电。其中,备用回路的电能来源为风-光-储互补系统。当主回路断电后,不间断电源内置的自动切换装置快速切换至备用回路为负载供电,助力负载全年度24小时不间断运行。

This power supply has built-in main dual-loop self-switching device independently developed by Wasion. By default, it uses municipal electricity as the main circuit and micro uninterruptible power supply as the standby circuit to supply power for the load of Internet of Things devices such as meter, terminal, security, signal relay and so on. Among them, the power source of the standby circuit is the wind-photovoltaic Energy Storage complementary system. The built-in automatic switching device of uninterruptible power supply switches quickly to the standby circuit to supply power to the load once the main circuit is suddenly cut off, making that the load runs uninterruptedly all the year round.

2、系统组成 System Composition

主要由风力发电装置、光伏发电装置、不间断电源系统等组成。不间断电源系统内置电池、电池管理、控制、变流、双回路自切换、通讯、接地等装置;

The system is mainly composed of Wind and solar power generation device and uninterrupted power supply system. Uninterruptible power supply system has many device such as built-in battery, battery management, control, converter, dual-loop self-switching, communication, grounding and so on.

3、适用场景 Application

光照条件较差、连续阴雨天气超过 7 天、表计/终端/安防/信号中继等物联设备需要 24 小时不间断运行的应用场景

Application scenarios in which the Internet of Things devices, such as meter, terminal security, signal relay equipment, need work continuously for 24 hours in the case of poor sunshine condition or continuous rainy weather more than 7 days.

4、系统特点 System Features

主备双回路供电,毫秒级快速切换

Main and standby dual-circuit power supply, millisecond fast switching

主备双回路相互独立,备用回路工作时不影响主回路供电和计量可靠性

Independent main and standby double loops, in which standby loop does not affect the reliability of power supply and measurement of the main loop.

风光储互补供电,真正实现365天*24小时不间断运行

Complementary power supply of wind, solar and battery storage, realizing uninterrupted operation of 365 days * 24 hours

DC12V、DC24V、AC100V、AC220V多种电压可选

Various voltage options for DC12V, DC24V, AC100V and AC220V

常温和低温两种版本,覆盖高低温应用场景

Normal and low temperature versions, covering high and low temperature application scenarios

体积小,重量轻,IP54防水

Small size, light weight, Waterproof grade of IP54

8年设计寿命

8-year designed life

5、系统参数 System Parameters

微型不间断电源(风光储型)

Micro Uninterruptible Power Supply (Wind, Solar and Energy Storage Type)

型号: WS-EPW 系列

Model: WS-EPW Series

项目	参数类型	技术指标
Item	Parameter Types	Technical Indicators
微型不间断电	直流输入电压范围(V)	10~70
源	DC Input Voltage Range (V)	10~70
Micro	最大直流输入电流(A)	
Uninterruptibl	Maximum DC input current	10
e Power	(A)	
Supply	最大交流输入电压(V)	250

Maximum AC Input Voltage	
(V)	
最大交流输入电流(A)	
Maximum AC input current	5
(A)	
供电时间(天)	365 天*24h 不间断
Power supply time (Day)	365 days * 24 hours uninterrupted
额定输出电压(电压可选)(V)	
Rated Output Voltage	AC100/220 , DC12/24
(Voltage Optional) (V)	
交流输出频率范围(Hz)	
AC Output Frequency Range	50±3
(Hz)	
额定输出功率(W)	25 /50 /100
Rated output power (W)	25/50/100
系统最高效率	
Maximum System	92%
Efficiency	
1714	过载保护、短路保护
保护	Overload protection, short circuit
Protection	protection
设计寿命(年)	8

	Design Life (Year)	
	工作温度范围(℃) Working Temperature Range (C)	0~55(WS-EPW 系列常温型) 0-55 (WS-EPW series of room temperature type) -20~55(WS-EPW-C 系列低温型) -20-55 (WS-EPW-C series of low
		temperature type)
	主备切换时间(ms) Master-standby switching time (ms)	≤70
	尺寸(不含安装件)(W*D*H) Dimensions (excluding fittings) (W*D*H)	300*280*94.5
	本体重量(不含安装件)(kg) Body weight (excluding fittings) (kg)	7
光伏发电	最大输出功率(W) Maximum Output Power (W)	100
Photovoltaic	工作温度范围(℃)	
Power	Working Temperature Range	-40~85
Generation	(C)	
	重量(kg)	7

	Weight (kg)	
	尺寸 (mm)	
	Dimension (mm)	920*670*50
	最大输出功率(W)	
	Maximum Output Power (W)	100
	启动风速(m/s)	
	Start-up wind speed (m/s)	2
	Rated wind speed (m/s)	10
风电	安全风速(m/s)	
Wind Power	Safe Wind Speed (m/s)	55
Generation	重量 (kg)	
	Weight (kg)	6
	风轮直径(m)	1 1
	Wind wheel diameter (m)	1.1
	工作温度范围(℃)	
	Working Temperature Range	-40~80°C
	(C)	
储能		常温型:磷酸铁锂电池
Energy	电池类型	Normal temperature type: lithium iron
	Battery type	phosphate battery
Storage		低温型:钛酸锂或胶体铅酸电池

	Low temperature type: lithium titanite
	or colloidal lead-acid battery
额定电压(V)	12
Rated voltage(V)	12
额定功率(W)	100
Rated power(W)	100

6、产品图片 Product Pictures

风电 Wind Power

光伏 PV

电源 Power Supply



微型不间断电源(光储型)

Micro Uninterruptible Power Supply Solution (Photovoltaic Energy Storage Type)

WS-EP 系列

WS-EP Series

1、系统简介 System Introduction

本电源内置威胜自主研发的主备双回路自切换装置,默认通过市电作为主回路、微型不间断电源作为备用回路为物联设备如表计、终端、安防、信号中继等负载供电。其中,备用回路的电能来源为光-储互补系统。当主回路断电后,不间断电源内置的自动切换装置快速切换至备用回路为负载供电,助力负载全年度24小时不间断运行。

This power supply has built-in main dual-loop self-switching device independently developed by Wasion. By default, it uses municipal electricity as the main circuit and micro uninterruptible power supply as the standby circuit to supply power for the load of Internet of Things devices such as meter, terminal, security, signal relay and so on. Among them, the power source of the standby circuit is the photovoltaic Energy Storage complementary system. The built-in automatic switching device of uninterruptible power supply switches quickly to the standby circuit to supply power to the load once the main circuit is suddenly cut off, making that the load runs uninterruptedly all the year round.

2、系统组成 System Composition

主要由光伏发电装置、不间断电源系统等组成。不间断电源系统内置电池、电池管理、 控制、变流、双回路自切换、通讯、接地等装置;

The system is mainly composed of photovoltaic power generation device and uninterrupted power supply system. Uninterruptible power supply system has many devices such as built-in battery, battery management, control, converter, dual-loop self-switching, communication, grounding and so on.

3、适用场景 Application

光照条件较好、连续阴雨天气不超过 7 天、表计/终端/安防/信号中继等物联设备需要 24 小时不间断运行的应用场景

Application scenarios in which the Internet of Things devices, such as meter, terminal security, signal relay equipment, need work continuously for 24 hours in the case of good sunshine condition or continuous rainy weather less than 7 days.

4、系统特点 System Features

主备双回路供电,毫秒级快速切换

Main and standby dual-circuit power supply, millisecond fast switching 主备双回路相互独立,备用回路工作时不影响主回路供电和计量可靠性

Independent main and standby double loops, in which standby loop does not affect the reliability of power supply and measurement of the main loop.

风光储互补供电,真正实现365天*24小时不间断运行

Complementary power supply of wind, solar and battery storage, realizing uninterrupted operation of 365 days * 24 hours

DC12V、DC24V、AC100V、AC220V 多种电压可选

Various voltage options for DC12V, DC24V, AC100V and AC220V

常温和低温两种版本,覆盖高低温应用场景

Normal and low temperature versions, covering high and low temperature application scenarios

体积小,重量轻,IP54防水

Small size, light weight, Waterproof grade of IP54

8年设计寿命

8-year designed life

5、系统参数 System Parameters

微型不间断电源(光储型)

Micro Uninterruptible Power Supply (Photovoltaic Energy Storage Type)

型号: WS-EP 系列 Model: WS-EP Series

项目	参数类型	技术指标
Item	Parameter Types	Technical Indicators
微型不间断电	直流输入电压范围(V)	10~70
77.34.3	DC Input Voltage Range (V)	1070
源	最大直流输入电流(A)	
Micro	Maximum DC input current	10
IVIICIO	(A)	
Uninterruptib	最大交流输入电压(V)	
le Power	Maximum AC Input Voltage	250
	(V)	

Supply	最大交流输入电流(A) Maximum AC input current (A)	5
	供电时间(天)	365 天*24h 不间断
	Power supply time (Day)	365 days * 24 hours uninterrupted
	额定输出电压(电压可选)(V) Rated Output Voltage	AC100/220 , DC12/24
	(Voltage Optional) (V)	
	交流输出频率范围(Hz)	
	AC Output Frequency Range	50±3
	(Hz)	
	额定输出功率(W)	25/50/100
	Rated output power (W)	
	系统最高效率 Maximum System	92%
	Efficiency	
		过载保护、短路保护
	保护 Protection	Overload protection, short circuit
		protection
	设计寿命(年) Design Life (Year)	8
		0~55(WS-EP 系列常温型)
		0-55 (WS-EP series of room
	工作温度范围(℃)	temperature type)
	Working Temperature Range (C)	-20~55(WS-EP-C 系列低温型)
		-20-55 (WS-EP-C series of low
		temperature type)
	主备切换时间(ms) Master-standby switching	≤70
	g	

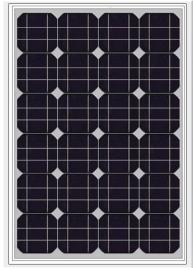
	time (ms)	
	尺寸 (不含安装件) (W*D*H)	
	Dimensions	300*280*94.5
	(excluding fittings) (W*D*H)	
	本体重量 (不含安装件)(kg)	
	Body weight (excluding	7
	fittings) (kg)	
	最大输出功率(W)	100
	Maximum Output Power (W)	
光伏发电	工作温度范围(℃)	
アバス电 Photovoltaic	Working Temperature Range	-40~85
	(C)	
Power	重量(kg)	_
Generation	Weight (kg)	7
	尺寸 (mm)	020*670*50
	Dimension (mm)	920*670*50
		常温型:磷酸铁锂电池
		Normal temperature type: lithium iron
	电池类型	phosphate battery
储能	Battery type	低温型:钛酸锂或胶体铅酸电池
Energy		Low temperature type: lithium titanite
Storage		or colloidal lead-acid battery
	额定电压(V)	
	Rated voltage(V)	12
	额定功率(W)	100

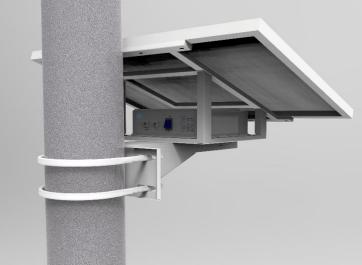
Rated power(W)

6、产品图片 Product Pictures

光伏 PV

电源 Power Supply









微型不间断电源(储能型) Micro Uninterruptible Power Supply Solution (UPS Type)

WS-E 系列 WS-E series

1、系统简介 System Introduction

本电源内置威胜自主研发的主备双回路自切换装置,默认通过市电作为主回路、微型不间断电源作为备用回路为物联设备如表计、终端、安防、信号中继等负载供电。其中,备用回路的电能来源为 UPS 式储能装置系统。当主回路断电后,不间断电源内置的自动切换装置快速切换至备用回路为负载供电,助力负载全年度24小时不间断运行。

This power supply has built-in main dual-loop self-switching device independently developed by Wasion. By default, it uses municipal electricity as the main circuit and micro uninterruptible power supply as the standby circuit to supply power for the load of Internet of Things devices such as meter, terminal, security, signal relay and so on. Among them, the power source of the standby circuit is UPS energy storage device system. The built-in automatic switching device of uninterruptible power supply switches quickly to the standby circuit to supply power to the load once the main circuit is suddenly cut off, making that the load runs uninterruptedly all the year round.

2、系统组成 System Composition

主要由不间断电源系统等组成。不间断电源系统内置电池、电池管理、控制、变流、双回路自切换、通讯、接地等装置;

The system is mainly composed of uninterrupted power supply system. Uninterruptible power supply system has many device such as built-in battery, battery management, control, converter, dual-loop self-switching, communication, grounding and so on.

3、适用场景 Application

频繁停电,但单次停电时长不超过3天、表计/终端/安防/信号中继等物联设备需要不间断运行的应用场景

Application scenarios in which the Internet of Things devices, such as meter, terminal security, signal relay equipment, need work continuously for 24 hours in the case of frequent electricity outages and no more than 3 days each time.

4、系统特点 System Features

主备双回路供电,毫秒级快速切换

Main and standby dual-circuit power supply, millisecond fast switching

主备双回路相互独立,备用回路工作时不影响主回路供电和计量可靠性

Independent main and standby double loops, in which standby loop does not affect the reliability of power supply and measurement of the main loop.

真正实现 3 天*24 小时不间断运行

Realizing uninterrupted operation of 3 days * 24 hours

DC12V、DC24V、AC100V、AC220V多种电压可选

Various voltage options for DC12V, DC24V, AC100V and AC220V

体积小,重量轻,IP54防水

Small size, light weight, Waterproof grade of IP54

8年设计寿命

8-year designed life

5、系统参数 System Parameters

微型不间断电源()

Micro Uninterruptible Power Supply (UPS Type)

型号: WS-E 系列 Model: WS-E Series

项目	参数类型	技术指标
Item	Parameter Types	Technical Indicators
	输入电压范围(V)	70~280
	AC Input Voltage Range (V)	70~280
微型不间断电源	最大直流输入电流(A)	
Micro	Maximum DC input current	10
Uninterruptibl	(A)	
e Power	供电时间 (天)	3 天*24h 不间断
Supply	Power supply time (Day)	3 days * 24 hours uninterrupted
	额定输出电压(电压可选)(V)	AC100/220 DC12/24
	Rated Output Voltage	AC100/220 , DC12/24

(Voltage Optional) (V)	
交流输出频率范围(Hz)	
AC Output Frequency Range	50±3
(Hz)	
额定输出功率(W)	25 /50 /100
Rated output power (W)	25/50/100
系统最高效率(%)	
Maximum System	95
Efficiency(%)	
保护	过载保护、短路保护
اہمیں۔ Protection	Overload protection, short circuit
Protection	protection
设计寿命(年)	8年
Design Life (Year)	0.4
	0~55(WS-E 系列常温型)
工作温度范围(℃)	0~55 (WS-E series of room
Working Temperature	temperature type)
	-20~55(WS-E-C 系列低温型)
Range (C)	-20~55 (WS-E-C series of low
	temperature type)
主备切换时间(ms)	20~70
Master-standby switching	20~70

	time (ms)	
	尺寸(不含安装件)(W*D*H)	
	Dimensions	300*280*94.5
	(excluding fittings) (W*D*H)	
	本体重量(不含安装件)(kg)	
	Body weight (excluding	5
	fittings) (kg)	
		常温型:磷酸铁锂电池
		Normal temperature type: lithium iron
	电池类型	phosphate battery
	Battery type	低温型:钛酸锂或胶体铅酸电池
储能		Low temperature type: lithium titanite
Energy Storage		or colloidal lead-acid battery
	额定电压(V)	12
	Rated voltage(V)	12
	额定功率(W)	100
	Rated power(W)	100

6、产品图片 Product Pictures

电源 Power Supply

