



IO-Power USSP-12V0712-II Series

Indoor / Outdoor Large Consumption Model

Online Type Uninterruptible Operation Power System



IO-Power USSP-12V0712-II series is special designed Indoor / Outdoor load for large power consumption system equipment, to meet the Indoor / Outdoor uninterruptible operation of the system, such as infrared cameras, infrared projector, thermal energy conversion devices, large discharge current equipment or take over 12 hours more effective online type uninterruptible operation power systems.

IO-Power USSP-12V0712-II series, the use of industrial level of metal protection shell and waterproof dust reached IP66 of mechanism design, and import latest technology of resistance high and low temperature C-LiFePO4 lithium battery and unique charging and discharging battery management control and the static zero power consume patented technology, achieve Indoor / Outdoor power load device of long-term large consumption safety new application online type uninterruptible operation power systems.

IO-Power USSP-12V0712-II series, take online type does not interrupt of long-term large consumption power supply system design, special for demand strict operation in the system of not interrupt using; its long-term of power supply time can over 12 hours above, can directly application for emergency rescue system, mobile power supply system, Indoor /



Outdoor infrared surveillance security system, Indoor / Outdoor infrared projection lamp, mine and the special work environment device system, businesses charges trading records system, financial institutions security protection system, elevator security video monitoring system, fire security system, precious articles or products monitoring system, 24 hours road records device cameras system, even is home large fish tank pumped up and the circulatory system ...and so on, those applications are very suitable to use USSP-12V0712-II series.

IO-Power USSP-12V0712-II series, Indoor / Outdoor long-term large consumption online type Uninterruptible Operation power system of the system components including:

1. Input AC power port: AC 100-240V AC input, converted to 18V/3A by AC-DC transformer, that operation of the system power source.
2. Microprocessor modules: microprocessor for detecting input power management, battery management, battery management power control, output voltage management, system operations control detection and protection management, perform the dimensional transport co-ordination and control of the overall system management.
3. The charging and discharging control module: charge balanced voltage detection and management for battery and battery management control, CCP/CVP charge of unique patented technology, complemented by patent protection mechanism of static power consumption of zero discharge, battery low voltage protection and rapid recovery of operation, provide the best protection and the efficient operation of the mechanism.
4. The DC power output port: DC power supply discharge detection through microprocessor control and protection, for







load device power requirement, corresponds to taking the appropriate current power supply, minimum 0.5A to maximum 3A DC current supply control.

5. Special strengthening of protection measures: for seasons environment of high and low temperature changes, maybe produce serious effect on battery of cycle life and using efficiency, even produced using device of security problem, therefore for USSP-12V0712-II Indoor / Outdoor type products series, special design industrial level airtight metal shell and waterproof dust reached IP66 of mechanism design and the resistance high and low temperature waterproof connector accessories, to avoid Indoor / Outdoor environment using device of security problem occurs.

6. Resistance high and low temperature long-effect C-LiFePO₄ lithium battery: due to should Indoor / Outdoor operation in the system of not interrupt and more long-term large consumption using demand, traditional general of Indoor / Outdoor concentrated type uninterruptible power system, is obvious to cannot provides should have of service; USSP-12V0712-II series distributed architecture design power systems, high charge and discharge times and through the new C-LiFePO₄ lithium battery and battery cycle life to provide more than traditional generally features. The USSP-12V0712-II power supply capacity compare traditional uninterruptible power supply more than 2 times and 5 times power system operation time and 7 times battery cycle life, fully rendering Indoor / Outdoor lighting online type large consumption uninterruptible operation power system of outstanding characteristics.



IOP-USSP-12V0712-II Series Specification (* Patent Pending)

Model	IOP-USSP-1207-04A	IOP-USSP-1208-05A	IOP-USSP-1210-05A	IOP-USSP-1212-06A
Indoor / Outdoor Model DC Jack Iron Airtight Housing IP 66				
Power Capacity	88 WH (6.9Ah@12.8V)	103 WH (8.05Ah@12.8V)	117 WH (9.2Ah@12.8V)	148 WH (11.6Ah@12.8V)
AC to DC Adapter Input AC Voltage Output DC Voltage	100-240V/1.5A 50/60Hz 18V/3A Max			
DC to DC for Device	DC 11.5V~14.4V +-3% 3Max			
DC to DC for Battery	14.4V +-3% 1.5~2.4A Max			
Transform Efficiency	90%~			
Protection	On Line Working System Non Stop Standby Consume Protection* Standby Consume Protection* Balance Voltage Function* Overload Protection			



	Overcharge Protection			
	Over discharge Protection			
	Over current Protection			
	Short circuit Protection			
Support Battery Type	C-LiFePO4 Lithium Batteries			
Battery Capacity	6.9Ah @ 12.8V (88WH)	8.05Ah @ 12.8V (103WH)	9.2Ah @ 12.8V (117WH)	11.6Ah @ 12.8V (148WH)
Battery Charge Mode	CCP/CVP MCU Control			
Battery Charge Voltage	14.4V +- 3%			
Battery Charge Float Voltage	13.6V +- 3%			
Battery Cut-off Discharge Voltage	11.5V +- 3%			
Battery recovery discharge voltage	12.4V +- 3%			
Standard Charge Current	1.8A			
Standard Discharge Current	1.5A			
Max. Discharge Current	3A			
Charging Time @95% Capacity	Non discharge 5hrs On line discharging 7hrs	Non discharge 6hrs On line discharging 8hrs	Non discharge 7hrs On line discharging 10hrs	Non discharge 8hrs On line discharging 12hrs
Battery Cycle Life	@ 25°C 2000 Times			



(80% Capacity) 0.2C Charging 0.5C Discharge	@ 45°C 1600 Times @ 50°C 1200 Times @ 60°C 550 Times @ 60°C 720 Times 70% Capacity			
Industrial Housing & Connector	Iron Airtight Housing IP 67 Gland Connector			
Connector Type	1.Input: 100~240V Adapter AC Plug & DC Jack 2.Output:12V/DC Jack Female			
Operating Temperature (Discharge)	-20°C ~ 60°C 20~40°C Battery Capacity:100% -10°C Battery Capacity : 60% -20°C Battery Capacity : 48%			
Charging Temperature	-30°C ~ 60°C			
Storage Temperature	-20°C ~ 40°C			
Rel. Humidity	10~95%RH			
Storage Time	6 months (Please every three months charge one time) (Before the Use, please First Charge)			
Dimension	209(L)x109(W)x150mm(H)	209(L)x109(W)x150mm(H)	209(L)x109(W)x150mm(H)	209(L)x109(W)x150mm(H)
Weight	2.3Kg (Box 3.1Kg) (3Pcs/Carton)	2.5Kg (Box 3.3Kg) (3Pcs/Carton)	2.7Kg (Box 3.5Kg) (3Pcs/Carton)	2.9Kg (Box 3.7Kg) (3Pcs/Carton)
LED Indicator	1. Input AC power LED-red full light (Battery capacity more than 95%) 2. Input AC power LED-red flash light (Battery is charging)			



	3. Battery is charging, Insert the 12V device load, LED-green flash light 4. Battery non charging, Insert the 12V device load, LED-green full light			
Housing	IP66			
Approvals	. CE, FCC			
Installation	1.Street lamp pole mount 2.Upright pole mount 3.Wall mount installation 4.DIN Rail (Optional)			
Warranty	12 months			
Carton Size	490*340*155mm	490*340*155mm	490*340*155mm	490*340*155mm

Ps 1: Battery Capacity +/-5%

Ps 2: Product specifications change, without notice, consultation with agent or dealer before buying the latest specifications