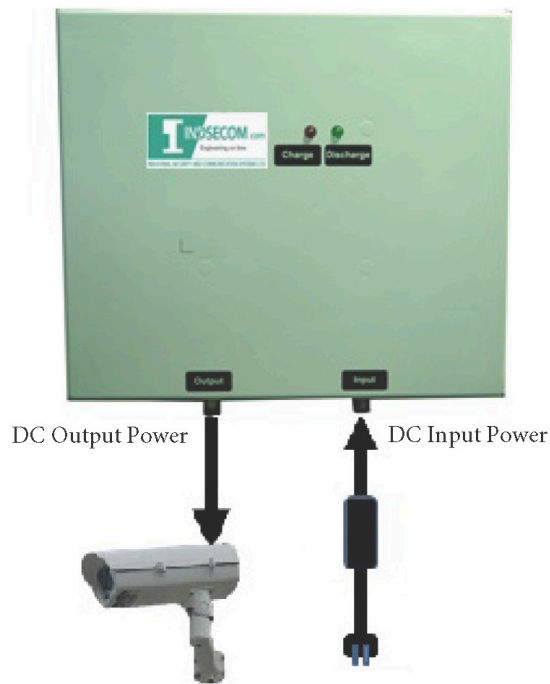


## IND-USSP-1247-108



Indsecom DC Outdoor UPS design is based on the next generation energy efficient C-LiFePO4 Lithium batteries



## Indsecom DC Outdoor UPS System

Indsecom has developed a smart DC Outdoor UPS system for different weather environment with wide operating temperature range from  $-40^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$  which is ideal for any type of video or thermal surveillance activity across the globe.

**IND-USSP-12V3556-OA and IND-USSP-12V1224-OA** series DC Outdoor UPS systems are powered by latest C-LiFePO4 Lithium batteries. This is the most energy efficient, tiny, long lasting high watt battery with outdoor tolerance to high/low temperature. It also provides better battery charge/discharge cycle life, enhanced design for input/ output port protection, designed with DC to DC power supply mode in order to reduce AC to DC conversion loss.

The Indsecom DC Outdoor UPS system have direct applications in Street Lights, DVR Video host, NVR Video host, Licence Plate Recognition System, Video surveillance systems, Thermal imaging, Infrared cameras and wireless data transmission systems.

It's included with Automatic Input Voltage detection, Built in C-LiFePO4 battery BMS/PCM voltage balance management, Battery overcharge and discharge protection and protected from temperature variations.

# SPECIFICATIONS

IND-USSP-12V3556-0A Series

Datasheet

MODEL	USSP-1232-10B	USSP-1235-10B	USSP-1240-10B	USSP-1247-10B	USSP-1256-10B
BUILT IN C-LiFePO4	412 WH	445 WH	515 WH	594 WH	716 WH
BATTERY POWER CAPACITY	(32.2Ah @ 12.8V)	(34.8Ah @ 12.8V)	(40.2Ah @ 12.8V)	(46.4Ah @ 12.8V)	(56Ah @ 12.8V)
GENERAL UPS LABEL SIZE	2472 VA (2.4KVA)	2670 VA (2.6KVA)	3090 VA (3KVA)	3564 VA (3.5KVA)	4296 VA (4.3KVA)
MAX OUTPUT WATTAGE	100 W/H	100 W/H	100 W/H	100 W/H	100 W/H
UPS DISCHARGE POWER SUPPLY TIME	More than 4 hr @ 100 W/H Discharge	More than 4.2 hr @ 100 W/H Discharge	More than 5 hr @ 100 W/H Discharge	More than 5.5hr @ 100 W/H Discharge	More than 7 hr @ 100 W/H Discharge
FULL CHARGE DC UPS BATTERY TIME	About 6.5hr @5A Charging	About 7hr @5A charging	About 8hr @5A charging	About 9.5hr @5A charging	About 11.5hr @5A charging
WEIGHT (1PCS/CARTOON)	3.8 Kg (Box 4.9kg)	4.2 Kg (Box 5.3kg)	4.9 Kg (Box 6.0kg)	6.5 Kg (Box 7.2kg)	7.7 Kg (Box 8.5kg)
AC TO DC ADAPTER: INPUT AC VOLT & OUTPUT DC VOLT.	AC 100~260V , 1.5A~2.5A, 50/60 Hz Transformer Adapter DC 15V~32V/4.5~8.0A above.				
EXTERNAL LOAD VOLTAGE	DC 11.7V ~ 14.2V ±3%				
EXTERNAL LOAD CURRENT	6A (8A around 100 W/H Max)				
BATTERY CHARGING VOLT.	13.8 V ~ 14.2 V ±3% Max				
BATTERY STANDARD CHARGING CURRENT	4A				
TRANSFORM EFFICIENCY	95%				
SUPPORT BATTERY TYPE	C-LiFePO4 Lithium Batteries				
BUILT IN BATTERY CAPACITY	32.2Ah @12.8V (412WH) ~ 60.9Ah @ 12.8V (780WH)				
BATTERY CHARGING MODE	CC/CV MCU Automatic Charging mode control				
BATTERY CHARGE VOLTAGE	14.2V ±3%				
BATTERY FLOAT VOLTAGE	13.8V ±3%				
BATTERY CUT-OFF DISCHARGE VOLTAGE	11.7V ±3%				
BATTERY RECOVERY DISCHARGE VOLTAGE	12.8V ±3%				
MAX. CHARGE CURRENT	5A				
MAX. DISCHARGE CURRENT	8A				
MAX. DISCHARGE CURRENT	5A (while charging and discharging at same time)				
BATTERY CYCLE LIFE (80% CAPACITY) 0.2 C CHARGING 0.5 C DISCHARGING	@25°C 2000 Times @45°C 1600 Times @50°C 1200 Times @65° C 550 Times , @65° C 720 Times 70% CAPACITY				
INDUSTRIAL HOUSING & CONNECTOR	IRON AIRTIGHT HOUSING IP68 Gland CONNECTOR				
CONNECTOR TYPE	1. AC/DC power supply: 100~240V/50~60Hz AC plug to 19~20V M12 Female 2. DC Output: 12 V M12 Female to DC jack Female 3. Input/output IO interface: RS-485 (optional)				
OPERATING TEMP. (DISCHARGE TEMPERATURE)	-35°C ~ 75°C ; 20 ~ 40 °C :- (100% BATTERY CAPACITY) ; 50 ~ 65 °C :- (90% BATTERY CAPACITY) ; 70 ~ 75 °C :- (80% BATTERY CAPACITY) ; -10°C :- (60% BATTERY CAPACITY) ; -20°C :- (48% BATTERY CAPACITY) -35 °C :- (40% BATTERY CAPACITY) ;				
CHARGING TEMP.	-35°C ~ 75°C				
STORAGE TEMP.	-35°C ~ 75°C				
RELATIVE HUMIDITY	10 ~ 95% RH				
DIMENSION	209 (L) x 200 (W) x 210 (H)				
HOUSING	IP66				
CARTOON SIZE	490mm x 400mm x 155mm				
APPLICABLE STANDARDS	CE, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2				
WARRANTY	Intelligent Charge, Discharge Main Board, IP66 Housing & relative parts supports 2 years limited Warranty whereas 1 year limited warranty for C-LiFePO4 Lithium Batteries.				

# SPECIFICATIONS

IND-USSP-12V1224-0A Series

Datasheet

MODEL	USSP-1212-06B	USSP-1216-07B	USSP-1218-08B	USSP-1224-09B	USSP-1228-10B
BUILT IN C-LIFEPO4	148 WH	206 WH	235 WH	297 WH	355 WH
BATTERY POWER CAPACITY	(11.6Ah @ 12.8V)	(16.1Ah @ 12.8V)	(18.4Ah @ 12.8V)	(23.2Ah @ 12.8V)	(27.6Ah @ 12.8V)
GENERAL UPS LABEL SIZE	888 VA (0.9KVA)	1236 VA (1.2KVA)	1410 VA (1.4KVA)	1782 VA (1.8KVA)	2130 VA (2.1KVA)
MAX OUTPUT WATTAGE	85 W/H	85 W/H	85 W/H	85 W/H	85 W/H
UPS DISCHARGE POWER SUPPLY TIME	More than 1.5 hr @ 85 W/H Discharge	More than 2 hr @ 85 W/H Discharge	More than 2.5 hr @ 85 W/H Discharge	More than 3hr @ 85 W/H Discharge	More than 4 hr @ 85 W/H Discharge
FULL CHARGE DC UPS BATTERY TIME	About 3hr @4A Charging	About 4hr @4A charging	About 4.5hr @4A charging	About 6hr @4A charging	About 7hr @4A charging
WEIGHT (2PCS/CARTOON)	2.5 Kg (Box 3.6kg)	3 Kg (Box 4.1kg)	3.2 Kg (Box 4.3kg)	3.8 Kg (Box 4.9kg)	4.5 Kg (Box 5.5kg)
AC TO DC ADAPTER: INPUT AC VOLT & OUTPUT DC VOLT.	AC 100~260V , 1.5A~2.5A, 50/60 Hz Transformer Adapter DC 15V~32V/4.5~8.0A above.				
EXTERNAL LOAD VOLTAGE	DC 11.7V ~ 14.2V ±3%				
EXTERNAL LOAD CURRENT	4A (7A around 85 W/H Max)				
BATTERY CHARGING VOLT.	13.8 V ~ 14.2 V ±3% Max				
BATTERY STANDARD CHARGING CURRENT	4A				
TRANSFORM EFFICIENCY	95%				
SUPPORT BATTERY TYPE	C-LiFePO4 Lithium Batteries				
BUILT IN BATTERY CAPACITY	11.6Ah @12.8V (148WH) ~ 30.0Ah @ 12.8V (384WH)				
BATTERY CHARGING MODE	CC/CV MCU Automatic Charging mode control				
BATTERY CHARGE VOLTAGE	14.2V ±3%				
BATTERY FLOAT VOLTAGE	13.8V ±3%				
BATTERY CUT-OFF DISCHARGE VOLTAGE	11.7V ±3%				
BATTERY RECOVERY DISCHARGE VOLTAGE	12.8V ±3%				
MAX. CHARGE CURRENT	4.5A				
MAX. DISCHARGE CURRENT	7A				
MAX. DISCHARGE CURRENT	4A (while charging and discharging at same time)				
BATTERY CYCLE LIFE (80% CAPACITY) 0.2 C CHARGING 0.5 C DISCHARGING	@25°C 2000 Times @45°C 1600 Times @50°C 1200 Times @65° C 550 Times , @65° C 720 Times 70% CAPACITY				
INDUSTRIAL HOUSING & CONNECTOR	IRON AIRTIGHT HOUSING IP68 Gland CONNECTOR				
CONNECTOR TYPE	1. AC/DC power Adaptor: 100~240V/50~60Hz AC plug to 19~20V M12 Female 2. DC Output: 12 V M12 Female to DC jack Female 3. Input/output IO interface: RS-485 (optional)				
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CHARGING TEMP.	-35°C ~ 75°C				
STORAGE TEMP.	-35°C ~ 75°C				
RELATIVE HUMIDITY	10 ~ 95% RH				
DIMENSION	209 (L) x 200 (W) x 210 (H)				
HOUSING	IP66				
CARTOON SIZE	490mm x 400mm x 155mm				
APPLICABLE STANDARDS	CE, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2				
WARRANTY	Intelligent Charge, Discharge Main Board, IP66 Housing & relative parts supports 2 years limited Warranty whereas 1 year limited warranty for C-LiFePO4 Lithium Batteries.				





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