Intelligent DC UPS Module

12V/9~36V DC Input, 12V DC Output Uninterruptible Power Supply Module with Diagnostics

- VESA 75 or VESA 100 mounting
- 9-36V input through terminal or power jack, or 12V through power jack only
- Battery status and charge monitoring utility. Remote network management capabilities

Features

- 60W (5A @ 12V) or 100W (8.3A @ 12V) output
- 28Wh or 56Wh, for more than 140 minutes operation time
  (dependent on panel PC power requirements)
- Rugged metal enclosure for standard VESA 75/100 mounting
- Web-based, remote network management, no software installation required
- Local PC-based monitoring software for input detection and battery status monitoring
- Auto shut down when battery low
- Remote DC output ON/OFF switch for external switch installation
- Provides stable power to the PC during line sags and spikes and absorbs power surges and transients, protecting expensive equipment

AUPS-A10
VESA 75, 12V DC Input
12V DC, 5A, 60W Output

AUPS-A20
VESA 75, 9V~36V DC Input
12V DC, 5A, 60W Output

AUPS-B10
VESA 75/100, 12V DC Input
12V DC, 8.3A, 100W Output

AUPS-B20
VESA 75/100, 9V~36V DC Input
12V DC, 8.3A, 100W Output

| Model Name	AUPS-A10-R10 AUPS-A20-R10	AUPS-B10-R10 AUPS-B20-R10
Input Power	AUPS-A10-R10	AUPS-B10-R10
	12V	12V
	AUPS-A20-R10	AUPS-B20-R10
	9~36V	9~36V
Dimension	150x95x34mm	170x150x34mm
Battery Capacity	28 Wh (Watt/H our)	56 Wh (Watt/Hour)
Output Power	60W (5A@12V)	100W (8.3A@12V)
VESA Support	75x75 mm	75 x 75 mm 100 x 100 mm

▌ Intelligent UPS Module

High Energy Density / Lightweight / Compact DC to DC UPS & Power Module

Protect your panel PC from electrical damage and greatly reduce the risk of losing data.

The UPS module serves as temporary power during a short break in power and allows a safe system shutdown for longer periods of power loss.

D. Networking UPS Management Port by RJ-45 Ethernet

A. Dual Power Input Connector

1. DC 9V~36V input by terminal block (Only AUPS-A20 / AUPS-B20)

2. (1) Only 12V input by DC jack (AUPS-A10 / AUPS-B10)
   (2) Wide 9V~36V input by DC jack (AUPS-A20 / AUPS-B20)

B. Battery Status USB Console Port

C. DC Power button DC Remote Power button
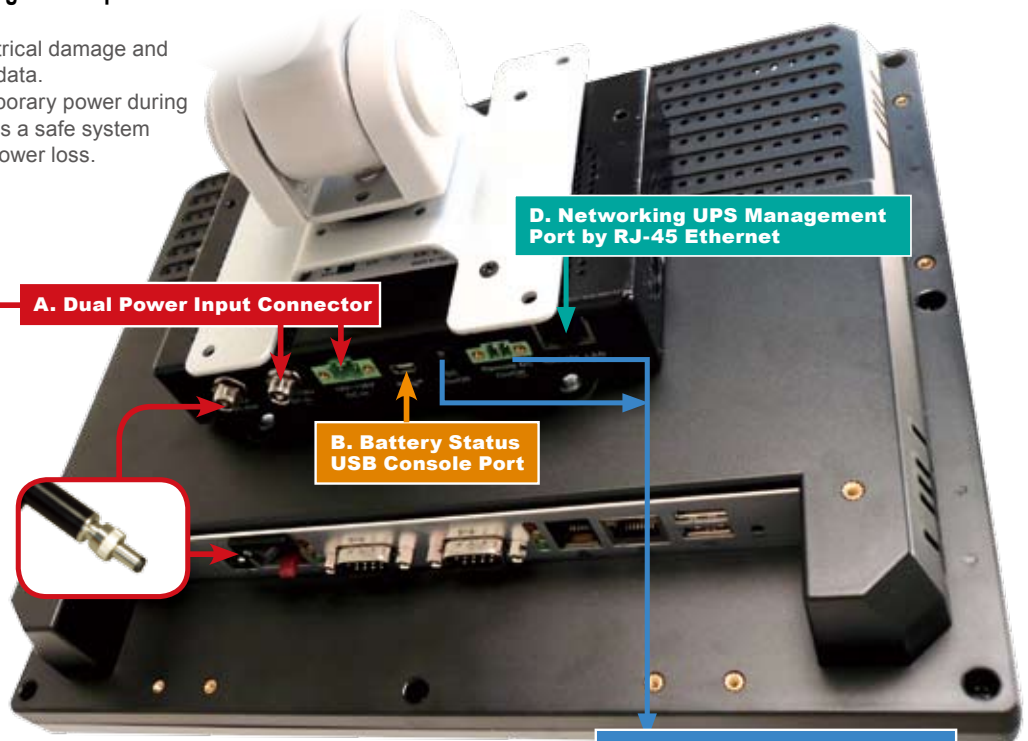
LED Signal Table			
	LED 1	LED 2	LED 3
Color	Green	Yellow	Orange
Function	Power Input	Charger Status	Battery Status
Dark	DC Power Out		
Light	DC Power In	Discharging	Battery Full
Blinking		Charging	Battery Low
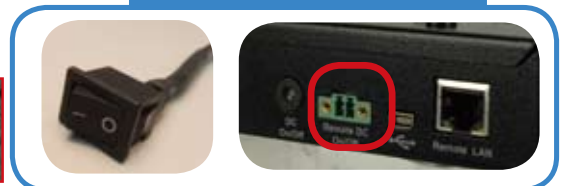
▌ AUPS Applications

● Easy Deploy with VESA Mounting

Provide standard VESA mounting to fit in all kind of situations in any application. The fanless embedded system, IBX-530-N270 which only consumes 15 watts, applied with the AUPS-A20-R10 offers reliable wide range DC input, economical power protection and more than 140 minutes operation time

Embedded System
IBX-530-N270

AUPS-A20

VESA 75/100 Mounting Kit
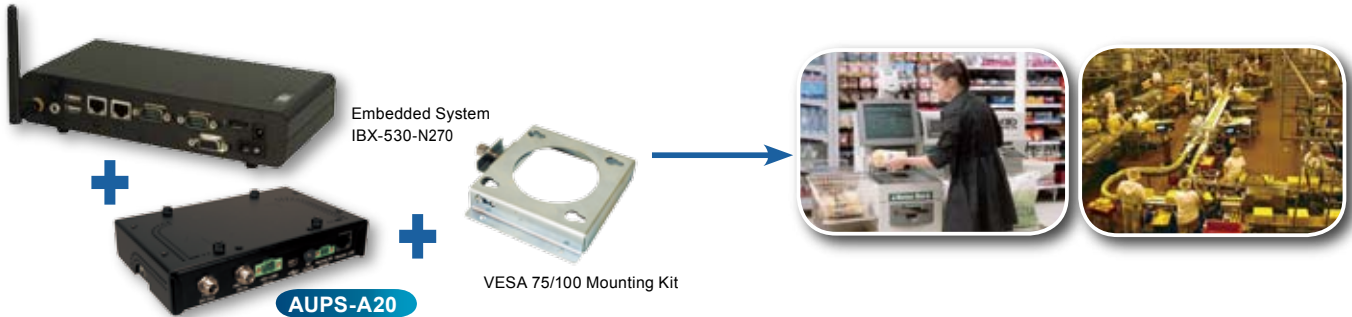
● Power Bank Solution

AUPS modules act as power input regulator to prevent unstable power input damage and avoid protect against unexpected power loss.

● Mobile System Solution

AUPS provides backup power for the data sensitive part of movable equipment, allowing charging and battery replacement of the primary power without shutting down the data terminal.

Host   Host

WiFi CERTIFIED

Barcode Scanner

Bluetooth®

Thermal Printer

802.11b/g & Bluetooth
All-in-One PPC

VESA 75/100 Support

Battery charging station

24 Hours
Uninterrupted Operation!

Lead-acid Battery

AFOLUX PPC Mobile Solution with AUPS

• **Redundant Power Protection**
  Loss of main power does not affect the data processing equipment. If main power fails, the AUPS will provide power to the PC.
• **Rechargeable Temporary Battery Pack**
  More than 140 minutes of uninterrupted operation, allowing time for an external battery charge or relocation data backup.
• **Continuous system operation reduces the risk of data loss**
• **VESA compliance makes installation simple, with only the included brackets needed for installation on a standard VESA bracket.**

12V DC or 24V DC

AUPS-A20

Removable Battery

Picking Cart

▍AUPS Network Administration Tool

● **Network Remote Management Anywhere**

AUPS IP address

● **Network Remote Management Software**

Battery Capacity Status   Power On/OFF   **Email Status Report**

UPS Status Monitoring

Remote control DC output ON/OFF via web interface.

● **Intelligent Software Utility**

The remote management software utility and application program allows users to easily get the status of the AUPS and to control the AUPS power functions from anywhere with an Internet connection.

Click ALARM to get each AUPS status via internet

Network Remote Management Software

• STATUS
• Send E-mail
• Board configuration

▍AUPS Local USB Utility Tool

Battery Monitoring Utility

Monitor the Most Critical Battery Functions on the Local Machine

The battery monitoring utility allows AUPS status monitoring and provides the ability to change the settings Uninterruptible Power Systems is a significant product that serves as emergency power when you suffer from electric event

Battery Monitoring Utility
Networking Remote Management

• Battery detection
• Battery capacity status
• Battery charge
• DC Input Indicator
• Battery Indicator
• Temperature warning
• Low battery alarm
• Connection port status

DC Input only   Charging 50%   Charging 100%
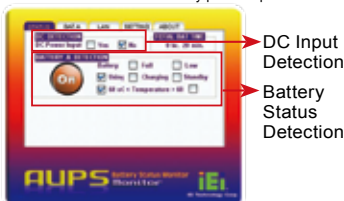
Normal Icon   Capacity 50%   Capacity 100%

BATTERY STATUS
• BAT.A shows Battery status real time monitoring
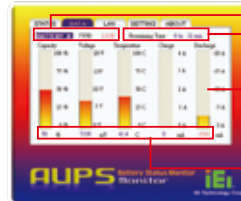
Battery Type
Battery usage remaining time
Battery capacity bar
Real time information updating

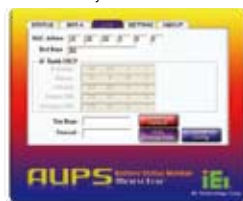### AUPS STATUS
• STATUS shows DC / Battery power input

DC Input Detection
Battery Status Detection

LAN CONFIGURATION
• LAN shows system IP Address information

ABOUT
• shows AUPS Utility information

SETTING
• SETTING shows Connection Detection port

Auto Shutdown

Auto-Scan Connection port
System shuts down condition by battery capacity setting

Meanwhile, IEI also provides AUPS API SDK and command list for customer programming under DOS or Linux system

AUPS API Content   **AUPS API SDK**

Inti()
AUPS Close()
WriteCommand()
ReadCommand()
Error Code Definition()

AUPS API.pdf
AUPSAPI.dll
AUPSAPI.h
AUPSAPI.lib

Linux

AUPS API SDK/Content

AUPS Module Specifications

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
	VESA Type	VESA 75	VESA 75	VESA 75 and 100	VESA 75 and 100
Input Data	Input voltage Uinated/range	DC +12V	DC +9V~+36V	DC +12V	DC +9V~+36V
	Input current rated	1. Adapter is 12V--6A (Load is 60W) 2. Battery is 6V--12A (Load is 60W)		1. Adapter is 12V--9A (Load is 100W) 2. Battery is 12V--9A (Load is 100W)	
	Standby power consumption	0.3A (0.2A if Network Management disabled)			
	Operation with charging current	500mA			
	Operation with charging power consumption	6W		10W	
	Charging time with system ON/OFF	8hrs / 2hrs (Battery empty)			
Output Data	Output voltage for normal operation	DC +12V +/-5%			
	Output voltage for battery operation, approx.	6~8.4V DC6 V (exhaustive discharge protection)		12~16.8V DC12 V (exhaustive discharge protection)	
	output current	0A~5A		0A~8.3A	
	Efficiency(nominal operation)/power lossat Vin=12V, Iout=80% of full loading	89%	93%	95%	94%
Protection	short-circuit protection	Yes			
	Exhaustive discharge protection	1.Battery low is 10% of Battery capacity 2.Shuntdown 5% of Battery capacity (Default) 3.The end of Battery discharge voltage is 6V			
	EMC / Safety certification	UL, TUV. CE, FCC			
Monitoring	Ethernet interface	Web-based, specification 10/100Mbps with RJ-45 connection, Cat. 5 cable			
	USB interface	PC-capable, specification 2.0 with full speed, i.e. 2 Mbit/s. Standard 4-core shielded cable, USB Series "mini B" connector to DC-UPS			
Physical	Dimensions	152mm(L) * 96mm(W)*28mm(H)		174mm(L) * 147mm(W)*35mm(H)	
	Weight	1.2 kg		1.8 kg	
LED Indicator	Green	DC power input			
	Yellow	Battery charging			
	Orange	Bettery discharging			
Environment	Operating Tem.	0°C~40°C			
	Storage Tem.	-20°C~50°C			

Note1: Suggest to connect DC input constantly. Battery will be drained after 14 hours.
Note2: System power consumption + AUPS charging power consumption = Total watts of power source

Battery Module Specifications

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
	Battery Model Name	BAT-LI-2S2P3800		BAT-LI-4S2P3800	
Battery	battery type	Li-Ion 2S2P 7.4V		Li-Ion 4S2P 14.8V	
	Battery capacity	7.4V 3800 mAH		14.8V, 3800 mAH	
	Maximum charge voltage	8.4V		16.8V	
	The end of discharging voltage	5.6V		11.2V	
	Suggestive charging current (Max.)	2A		2A	
	System continuous discharging current(Max)	7.6A		7.6A	
	The end of charge condition	250mA / 1Min		200mA / 1Min	
	Discharge protection	Under voltage protection / Over current protection			
	Charge protection	Over voltage protection / Over current protection			
	Ambient temp	0°C~40°C		0°C~40°C	
	Storage Tem	-20°C~60°C		-20°C~60°C	
	Self-discharge rate	340uA~440uA			
	Dimensions	139mm(L) * 47mm(W)*26mm(H)		165mm(L) * 76mm(W)*26mm(H)	
	Weight	236g		450g	
	Cycle life	300 charge / discharge cycles			
	Backup	60W / 10Min		100W / 10Min	
	Safety class	CE, UL, TUV			

Note: Suggest to replace Battery Module every 2 years.

Selection table for UPS modules and main buffering time

AFOLUX PPC	AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
Under 50W solution				
AFL-057-LX (15W~20W)	145min	145min	290min	290min
AFL-07A-N270 (20W~25W)	100min	100min	200min	200min
AFL-08AH-N270 (25W~30W)	70min	70min	140min	140min
AFL-10A-N270 (25~30W)	70min	70min	140min	140min
AFL-10A-9103 (40W~45W)	50min	50min	100min	100min
AFL-10A-LX (25W~30W)	70min	70min	140min	140min
AFL-12A-LX (25W~30W)	70min	70min	140min	140min
AFL-12B-CX2 (38W~42W)	50min	50min	100min	100min
AFL-12A-N270 (25W~30W)	70min	70min	140min	140min
AFL-12B-9103 (45W~48W)	45min	45min	90min	90min
50W ~ 100W solution				
AFL-15B-915-CM370 (58W~63W)	-	-	35min	35min
AFL-15C-9652-T7500 (65W~70W)	-	-	30min	30min
AFL-17B-915-CM370 (75W~80W)	-	-	25min	25min
AFL-17C-9652-T7500 (85W~90W)	-	-	20min	20min
AFL-19B-915-CM370 (75W~80W)	-	-	25min	25min
AFL-19C-9652-T7500 (85W~90W)	-	-	20min	20min

BAT-LI-2S2P3800   BAT-LI-4S2P3800

Note: The backup time could be varied on different models or operating temperature.

AUPS Mechanical Drawing (Unit: mm)

AUPS-A10/20
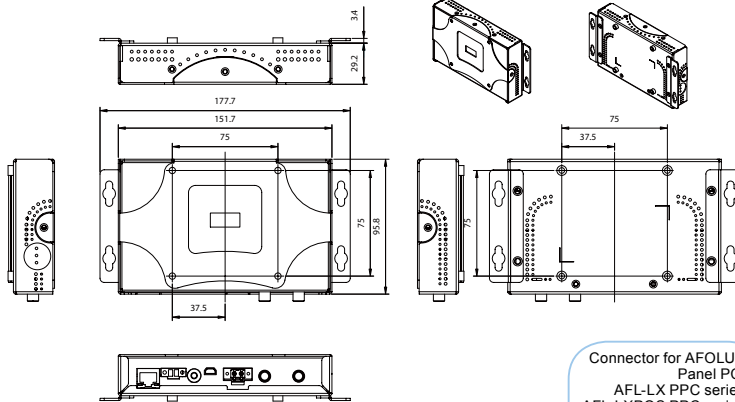
DC Power Cable (DC plug to DC plug) with lock
32000-115300-RS

DC plug 5.5x2.5 with lock — DC plug 5.5x2.1

Remote Switch Cable
32000-115600-RS

Return Switch — 22AWG

USB Connection Cable
32000-115500-RS

USB A type male — Mini USB B type male

DC Power Cable (DC plug to DC plug)without lock
32000-120400-RS

DC plug 5.5x2.5 without lock — DC plug 5.5x2.1

Connector for AFOLUX
Panel PC:
AFL-LX PPC series
AFL-LXPOS PPC series
AFL-CX2 PPC series
AFL-9103 PPC series
AFL-N270 PPC series

AUPS-B10/20

DC Power Cable (DC plug to DC plug) with lock
32000-115300-RS

DC plug 5.5x2.5 — DC plug 5.5x2.1

Remote Switch Cable
32000-115600-RS

Return Switch — 22AWG

USB Connection Cable
32000-115500-RS

USB A type male — Mini USB B type male

DC Power Cable (DC plug to mini DIN)
32000-115400-RS

mini Din 4 pin male — DC plug 5.5x2.1
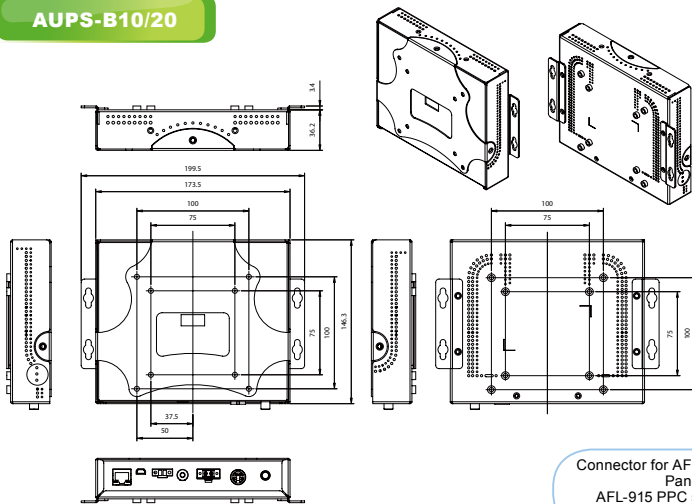
Connector for AFOLUX
Panel PC:
AFL-915 PPC series
AFL-965 PPC series

DC Power Cable (DC plug to DC plug)without lock
32000-120400-RS

DC plug 5.5x2.5 without lock — DC plug 5.5x2.1

Connector for AFOLUX
Panel PC:
AFL-LX PPC series
AFL-LXPOS PPC series
AFL-CX2 PPC series
AFL-9103 PPC series
AFL-N270 PPC series

Ordering Information

Part No.	Description
AUPS-A10-R10	VESA 75, DC 12V input, 12V output 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-A20-R10	VESA 75, DC 9~36V input, 12V output 60W UPS module with 3800mAH, 2S2P Li-Ion battery
AUPS-B10-R10	VESA 100, DC 12V input, 12V output 100W UPS module with 3800mAH, 2S4P Li-Ion battery
AUPS-B20-R10	VESA 100, DC 9~36V input, 12V output 100W UPS module with 3800mAH, 2S4P Li-Ion battery
BAT-LI-2S2P3800 (AUPS-A10/20)	Smart battery ;TE9IC032K1002 ;Lithium ion battery (S2P); 7.4V;3800mAh;RoHS
BAT-LI-4S2P3800 (AUPS-B10/20)	Smart battery ;TE9IC042K1002 ;Lithium ion battery (4S2P); 14.8V;3800mAh;RoHS

Packing List

Item	DC power cable, 150mm. mini Din 4 pin male to DC plug 5.0x2.1 (AUPS-B10/B20 only)	DC power cable, 150mm, DC plug 5.5x2.1 to DC plug 5.0x2.5 without lock	DC power cable, 150mm, DC plug 5.5x2.1 to DC plug 5.0x2.5 with lock	USB cable, 200mm, USB type A male to mini USB	Remote switch cable, 1200mm	Screws kit	Utility CD (including utility software and user's guide)
Part Number	32000-115400-RS	32000-120400-RS	32000-115300-RS	32000-115500-RS	32000-115600-RS	44013-030041-RS	7B000-000087-RS
Q'ty	1	1	1	1	1	1	1