APC Industrial Control Panel UPS

Proven uninterruptible power source for industrial control panels.

120V

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A reliable, flexible, cost-effective uninterruptible power source for industrial control panels.

An industrial control panel UPS that ensures continuity of process control and availability in the event of a utility power failure.

➢ Flexible Installation
➢ High Availability and Reliability
➢ Easy To Maintain
➢ Manageable

230V

APC Industrial Control Panel UPS

Segments:

- Water/Waste Water
- Mining/Metals/Minerals
- Biotech / Pharmaceutical
- Transportation
- Chemical
- Food & Beverage
- Semiconductor
- Automotive
- Oil/Gas

Flexible Installation

- Industrial Panel or DIN Rail Mountable ①
- Hardwired Input/Output ②
- Internal or External Battery Installation ③
- Chassis knockout - right side or bottom – for external battery cable routing – addresses NAM NEC 480.9(A) safety requirements

Easy To Maintain ⑧

- User-Replaceable Batteries – Battery replacement is simple and safe, and can be performed by the end-user. A technician is not required to replace the UPS battery.
- Hot-Swappable Batteries – End-users or service personnel can replace the battery even while the UPS is operating on utility power. Perform on PM schedule or coordinate with "Automatic Self Test" as described below.

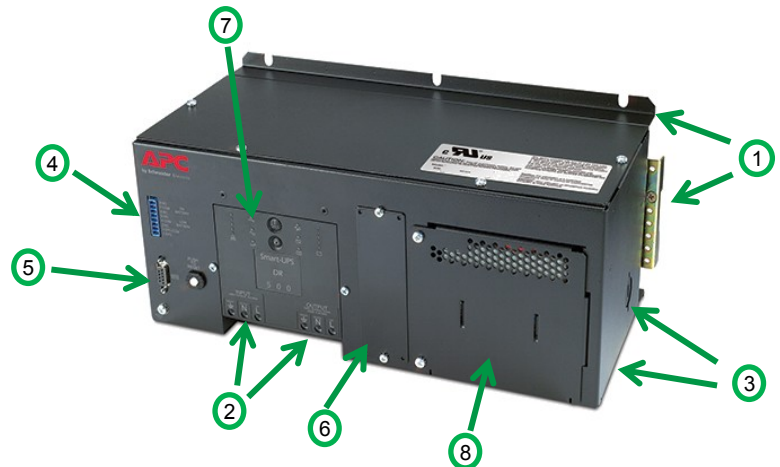## High Availability and Reliability

- Temperature-compensated Battery Charging – Prolongs battery life by regulating the charge voltage according to battery temperature.
- Automatic Self-Test – Periodic battery self-test ensures early detection of a battery that needs to be replaced. Default is bi-weekly; recommend at least quarterly test to insure reliable operation

Applications:

- Manufacturing Equipment :
    - Machine controllers; Process control;
    - Sensitive equipment; Safety Infrastructure
- Material & Packaging handling :
    - Fillers; Packaging robots;
    - Panel feeders/stackers
- Automation Control :
    - PLC's; I/O Controllers; Industrial PC's;
    - SCADA systems; OIT's and RTU's
- IP-based Devices :
    - Industrial Ethernet; Imaging;
    - Material-analysis; Motion sensors

Manageable

- Integrated Dry Contact I/O ④
- DB-9 Serial Port Communications ⑤
- APC SmartSlot ⑥ – Optional Network Management, Modbus, or Relay I/O Contacts Card. NOTE: Integrated Dry Contact I/O is disabled when card installed in SmartSlot
- LED Status Indicators ⑦ – External status LEDs indicate the state of the UPS: On-Line or On-Battery; Battery disconnected or needs to be replaced.
- Audible Alarms – Audible alarms (beeps) notify the end-user of the following conditions: On-Battery; Low Battery; Replace Battery.

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SKU	SUA500PDR-S (standard battery) SUA500PDR-H (high temperature battery)	SUA500PDRI-S (standard battery) SUA500PDRI-H (high temperature battery)
Input		
Nominal Input Voltage	120V	230V
Input Voltage Range	82 - 144VAC	160 - 280VAC
Input Frequency	45 - 65Hz; Auto-Selecting	
Input Connections	Hardwired Input (3-Wire; H-N-G)	
Output		
Nominal Output Capacity	500 VA / 325 W	
Topology	Line Interactive	
Waveform	Sine wave	
Nominal Output Voltage	120V	Default: 230V (User Configurable: 220/230/240)
Output Frequency	50/60 +/- 3Hz; Sync To Mains	
Efficiency (Full-Load)	>94%	
Output Voltage Distortion (Full Load)	<2% (100% Linear Load); <8% (100% Non-Linear Load)	
Output Connections	Hardwired Output (3-Wire; H-N-G)	
Protection		
Surge Energy Rating	540 Joules	340 Joules
Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449	
Thermal Protection	Yes	
Communications and Controls		
Serial Port	DB9; UPS Status, and Control of User Configurable Parameters	
SmartSlot	SmartSlot Accessories; AP9630 and AP9631 Network Cards, AP9610 Relay I/O Card, AP9622 Modbus Card	
Emergency Power Off (EPO)	Terminal Block	
Front Display Panel Buttons	On/Off, Self-Test, Alarm Silence, Cold-Start	
Visual and Audible Status Indicators		
LEDs	On-Line, On-Battery, Overload, Replace Battery; and Load and Battery Bar-Graphs	
Audible Alarm	On-Battery, Low-Battery, Overload	
Physical		
Dimensions (HxWxD)	5.84"x14.24"x7.72" (148x362x171 mm)	
Net Weight	18lb (8.18kg)	
Color	Black	
Environment		
Operating Temperature / Humidity	0 To 40 (°C) / 0 - 95% (Non-Condensing) (with Standard Battery) (-S SKUs) 0 To 50 (°C) / 0 - 95% (Non-Condensing) (with High-Temp Battery) (-H SKUs)	
Storage Temperature / Humidity	-5 To 60 (°C) / 0 - 95% (Non-Condensing)	
Mounting	Panel or DIN-Rail Mounting	
Conformance		
Regulatory Certifications	cUL, UL 1778, FCC (Class A), CE (Class A), VDE	

Battery Cartridge	APCRBC135	APCRBC136
Battery		
Battery Type	Maintenance-Free, Sealed Lead Acid Battery	
Nominal Battery Voltage	24VDC	
Runtime (Full Load)	8.5 minutes	
Recharge Time (To 90%)	<3 Hours	
Expected Battery Life	3 To 5 Years at 20°C	up to 8 Years at 20-25°C
Physical		
Dimensions (HxWxD)	4.22"x4.20"x5.65" (107x107x144 mm)	
Net Weight	10.3lb (4.68kg)	7.26lb (3.3kg)
Environment		
Operating Temperature / Humidity	0 To 40 (°C) / 0 - 95% (Non-Condensing)	0 To 50 (°C) / 0 - 95% (Non-Condensing)
Storage Temperature / Humidity	-15 To 45 (°C) / 0 - 95% (Non-Condensing)	

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