

APC Industrial Control Panel UPS

Proven uninterruptible power source for industrial control panels.



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



120V



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

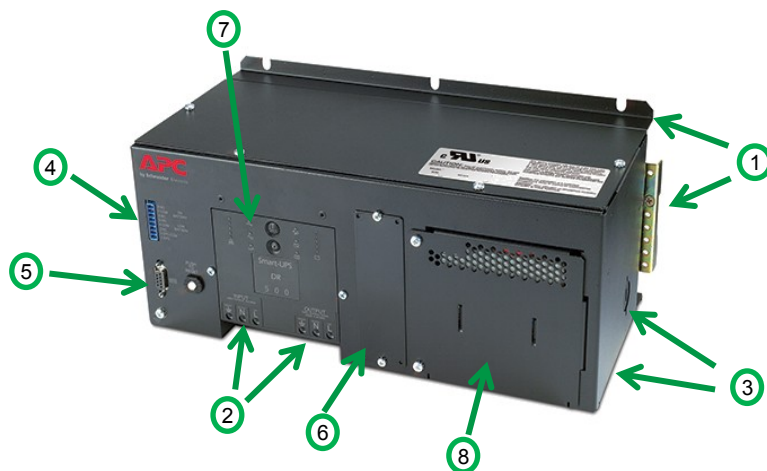
- Temperature-compensated Battery Charging – Prolongs battery life by regulating the charge voltage according to battery temperature.
- Automatic Self-Test – Periodic battery self-test ensures early detection of a battery that needs to be replaced. Default is bi-weekly; recommend at least quarterly test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



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)	

For More Information:

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