APC DIN Rail-Control Panel UPS

120V

230V

>

A proven, reliable, flexible, cost-effective uninterruptible power source for control panels ensuring continuity of process control during a power event or power failure

Benefits include:

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

April 2015

APC®
by Schneider Electric

APC DIN Rail-Control Panel UPS
500 VA / 325 W

Applications:

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

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

Benefit: Flexible Installation

Features:
- Control Panel or DIN Rail Mountable (1)
- Hardwired AC Input / Output (120 or 230Vac) (2)
- **Internal or External Battery** Installation (3)
  - Chassis knockout - right side or bottom
  - External battery mounting allows for compliance with United States NEC 480.9(A)

Benefit: Manageable

Features:
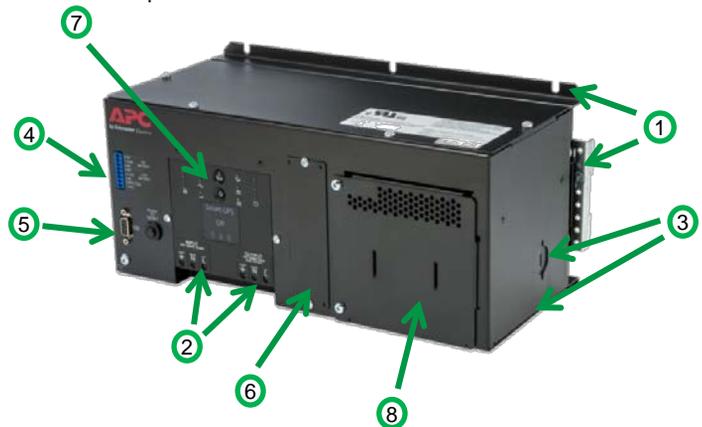- Integrated **Dry Contact Relay I/O** (4)
- DB-9 **Serial Port** Communications RS232 protocol (5)
- APC SmartSlot: Optional **Network Management**, Modbus, or Relay I/O Contacts Card. (6)
- **LED Status Indicators** – External status LEDs indicate the state of the UPS: On-Line or On-Battery; Battery disconnected or needs to be replaced. (7)
- **Audible Alarms** – Notify the end-user of the following conditions: On-Battery; Low Battery; Replace Battery.

Benefit: Easy to Maintain

Features:
- **Simple battery replacement:** Trained service (8) personnel can replace the battery even while the UPS is operating on utility power.
- **Simple testing:** Easily schedule "Automatic Self Test"

Benefit: High Availability & Reliability

Features:
- **Temperature-compensated battery charging:** Prolongs battery life by regulating the charge voltage according to battery temperature.
- **Automatic Self-Test:** Periodic battery self-test provides early detection of a battery in need of replacement.

SUA500PDR-H shown

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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	+32 to 104 °F (0 to 40 °C) / 0 - 95% (Non-Condensing) (with Standard Battery) (-S SKUs) +32 to 122 °F (0 to 50 °C) / 0 - 95% (Non-Condensing) (with High-Temp Battery) (-H SKUs)	
Storage Temperature / Humidity	+23 to 140 °F (-5 to 60 °C) / 0 - 95% (Non-Condensing)	
Mounting	Panel or DIN-Rail Mounting	
Conformance		
Regulatory Certifications	cUL, Recognized 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 68 °F (20°C)	up to 8 Years at 68 to 77 °F (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	+32 to 104 °F (0 to 40 °C) / 0 - 95% (Non-Condensing)	+32 to 122 °F (0 to 50 °C) / 0 - 95% (Non-Condensing)
Storage Temperature / Humidity	+5 to 113 °F (-15 to 45°C) / 0 - 95% (Non-Condensing)	

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