

Cyclades[®] PM42 3-Phase Intelligent Power Distribution Unit



Integrated Remote Power Management and Distribution

Cyclades PM42 intelligent power distribution unit (IPDU) enables remote power control and system management of IT assets located within data centers that utilize or plan to use more than 5kW of power within server racks. When used in conjunction with Cyclades ACS advanced console servers and DSR[®] switch appliances, Cyclades PM High Density IPDU offers quick problem resolution through an integrated management interface. Cyclades PM 42 provides:

Easier & flexible Installation

Cyclades PM42 allows racks with >5kW load to be powered with a single circuit as against multiple circuits required with single phase PDUs. 30A 3-phase input with 42 outlets provides room for growth without disruption of power to existing loads within the rack. Vertical form factor of the PM42 with multiple mounting options ensures that IT Managers do not have to use up any valuable U space within the racks.

Lower operational costs

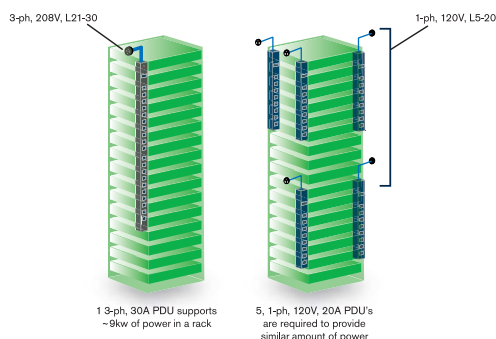
Cyclades PM42 provides the ability to turn on/off or recycle power to each individual outlet remotely saving IT Managers expensive trips back to the data center when a piece of IT gear is hung up. IT Managers can also control power consumption costs by automatically scheduling turn off of low-priority servers during periods with high power demand charges.

High Availability

A combination of switching and metering capabilities within Cyclades PM42 ensures high availability to all connected equipment. Power on delay allows sequential start up of all equipment within the rack minimizing possibility of circuit breaker trips due to high inrush currents. In addition, electronic overcurrent protection allows separate current thresholds to be set for each phase and when exceeded, all unused outlets on that specific phase to be turned off to prevent accidental overloads.

Easy Manageability

Cyclades PM42 is part of an integrated management solution for IT Managers. The unit includes two RS 232 ports: one for remote management through Cyclades ACS console servers, DSR switch appliances as well as DSView[®] 3 management software, and the second one for daisy chain expansion. Daisy chaining allows operators to control up to 3 units as a single device. Remote management capabilities include event logging and fault notification via e-mail, SMS or SNMP traps. Grouping capability allows similar action to be taken with several defined outlets simultaneously. Local management is achieved through an onboard LED display that shows real time, true RMS current draw as well as temperature. Unit is capable of generating visual and audible alarms whenever currents or temperature exceeds programmed thresholds.



Applications

- Power control over remote IT assets from anywhere on earth
- Support high density equipment
- Seamless integration with Cyclades ACS console servers, DSR switches and DSView 3 management software
- Monitor and balance current to optimize power delivery
- Proactive fault management and isolation
- Fault notifications via e-mail, SMS page and SNMP traps

Benefits

- Manage power and restore practically any IT asset without dispatching service personnel
- Deliver more power per rack to support high density equipment
- Reduce the number of power distribution units required to provide higher power requirements to a single rack
- Virtually eliminate power control errors during crisis situations
- Improve administrative efficiency with integrated control functions
- Allows technicians to monitor and balance power loads across the entire data center
- Proactively identify and manage problems to improve mean time between failure (MTBF)
- Reduce risk, reduce mean time to recovery (MTTR)
- Conserve valuable IP addresses and switch ports

Hardware Specifications

Interfaces:	1 RS-232 serial port (9,600 8-N-1) 42 IEC 520-C13 outlets Multi-daisy chaining capability up to three units
Power:	Input: 3-ph 208V nominal, 50/60Hz Maximum input current: 24A Maximum output power (entire strip): 8.7kVA Maximum output current per phase: 16A Maximum output current per outlet: 10A
Operating Temperature:	0°C to 50°C
Storage Temperature:	-20°C to 70°C
Humidity:	Operating: 20% to 80% noncondensing Storage: 5% to 95% noncondensing
Dimensions:	(W x D x H) 2.6 x 2.95 x 72 in. (5.6 x 6.5 x 182.9 cm)
Weight:	24 lbs. (10.9 kgs.)
Certifications:	EMC/Interference: FCC part 15 Safety: CSA (fully compliant with UL standard)
Cabling:	Input: Fixed 15' input power cable terminated with NEMA L21-30P plug Output: 42 IEC 520-C13 outlets – 5 banks of 14 outlets wired phase to phase

Features

- RS-232 serial port for configuration and management
- 42 outlets to support up to 42 1U servers within a rack
- Second RS-232 serial port for control-level daisy chaining (up to 126 outlets)
- Full RS-232 signal support allows dial-in access via modem

Administration

- Name assignment per IPDU (up to 8 characters)
- Name assignment per outlet (up to 16 characters)
- Local authentication support (up to 8 users)
- Per-outlet access control lists

Management

- Independent control of power outlets (power on/off, cycle)
- Virtual lock per outlet (on or off states)
- Sequential power up with user-defined inter-outlet delays
- Global, true RMS current monitoring per IPDU
- Two-digit 7-segment LED current display
- On/off status LED per outlet
- User-defined overcurrent threshold with alarm and electronic overcurrent protection
- Built-in visual and audible alarms
- Built-in ambient temperature sensor

Form Factors

- Industry's highest outlet density (up to 42 outlets per 1U)
- Flexible mounting options including support for keyhole mounting slots
- Outlet retention clips for all 42 outlets

Integration Features*

- Integrated power management through console and KVM sessions
- CLI, menu and GUI interfaces
- Multioutlet grouping for devices with redundant power supplies
- RADIUS, TACACS+, Kerberos, LDAP, and Active Directory server-based authentication with local fallback
- Token-based strong authentication (RSA SecurID®)
- Event logging via syslog
- Fault notification via e-mail, SMS page, SNMP trap
- SNMP integration with enterprise systems

* Features available when product is used in conjunction with Cyclades ACS console servers, DSR switches, Cyclades OnSite branch office appliance or DSView® 3 management software (not included).

Part Number	Description
ATP4200-001	Cyclades PM42 3-ph L21-30 input, 42 C13 outlets
HAR0643	Keyhole slot mounting buttons outlets

