Cyclades® PM
Intelligent Power Distribution Unit
IEC Models
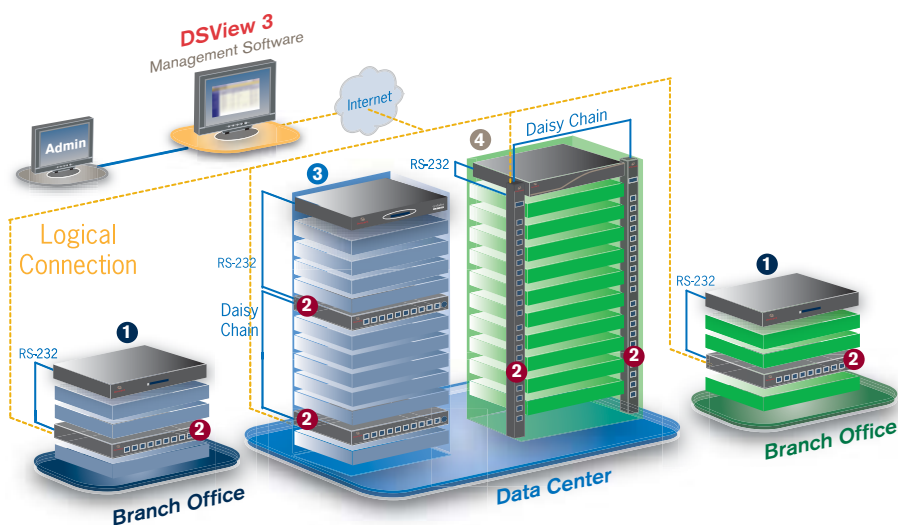
Integrated Remote Power Management and Distribution for Use in Branch and Remote Offices

Cyclades® PM intelligent power distribution units (IPDUs) enable remote power control and system management of IT assets in branch and remote offices. When used in conjunction with Cyclades ACS advanced console servers and DSR® switch appliances, Cyclades PM IPDUs offer quick problem resolution through an integrated management interface. With one or more outlets positively associated with a particular device, users may control power "in line" through a user-defined "hot key" or by using an intuitive Web browser-based GUI. In addition, a special command set facilitates scripting.

Cyclades PM IPDUs — IEC Models

Cyclades PM IEC models are equipped with IEC320-C13 power outlets and either IEC320 modular inlets or fixed power cables. These units are available in 10A, 15A, 16A, 20A, 30A and 32A capacities. Each model includes two RS-232 ports: one for management and the second for daisy-chain expansion. Daisy chaining allows an operator to control up to 128 power outlets as a single device. Cyclades IEC IPDUs are designed to operate in 100-240 VAC environments.

An LED display shows the real time, true RMS current draw. Each PM unit may be configured to sound an alarm during an overcurrent condition, and if it is connected to a Cyclades ACS console server, the IPDU may also send notifications via e-mail messages, Short Message Service (SMS) pager messages and SNMP traps.

Applications

- Power control over remote IT assets from anywhere on earth

- Seamless integration with Cyclades ACS console servers, DSR switches and DSView® 3 management software

- Proactive fault management and isolation

- Fault notifications via e-mail, SMS page and SNMP traps

Benefits

- Restore practically any IT asset without dispatching service personnel

- Virtually eliminate power control errors during crisis situations

- Improve administrative efficiency with integrated control functions

- Proactively identify and manage problems to improve mean time between failure (MTBF)

- Reduce risk, reduce mean time to repair (MTTR)

- Conserve valuable IP addresses and switch ports

1 **Cyclades OnSite**
Branch Office Appliance

2 **Cyclades PM**
IPDU

3 **Cyclades ACS**
Advanced Console Server

4 **DSR**
Switch

Hardware Specifications – IEC

Interfaces: 2 RJ-45 RS-232 serial ports (9,600 8-N-1)
10 or 20 IEC 320-C13 outlets

Power:

PM10i-10A
100–240 VAC, 10 A, IEC 320-C14 inlet
10 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-15A*
100–240 VAC, 15 A, IEC 320-C14 inlet
15 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-16A
100–240 VAC, 16 A, IEC 320-C20 inlet
16 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-20A,* PM20i-20A*
100–240 VAC, 20 A, IEC 320-C20 inlet
20 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-L30A,* PM20i-L30A*
100–240 VAC, 30 A, NEMA L6-30P twist-lock plug
30 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-32A, PM20i-32A
100–240 VAC, 32 A, IEC 309 plug
32 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM10i-32Au, PM20i-32Au
100–240 VAC, 32 A, unterminated cable
32 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

PM20i-16A
100–240 VAC, 16 A, IEC 320-C20 inlet
16 A max. branch circuit rating
10 A max. per IEC 320-C13 outlet

Operating Temperature: 50ºF to 122ºF (10ºC to 50ºC)

Storage Temperature: –40ºF to 185ºF (–40ºC to 85ºC)

Humidity: 5% to 95% noncondensing

Dimensions: (W x D x H)

PM10i-10A, -15A, -16A, -20A
17 x 8 x 1.75 in. (43.18 x 20.32 x 4.45 cm)

PM10i-L30A, -32A, -32Au
17 x 12 x 1.75 in. (43.18 x 30.48 x 4.45 cm)

PM20i-16A, -20A, -L30A, -32A, -32Au
2 x 2.8 x 66 in. (5.08 x 7.11 x 167.64 cm)

Weight:
PM10i   11.1 lb   5.0 kg
PM20i   14.1 lb   6.4 kg

Certifications: FCC Part 15, A   CSA (fully compliant to UL standard)
EN55022, A (CE)†   EN55024†
EN60950†   C-Tick†

*Units are certified to 80% of max. current rating.
†International models.

Features

Connectivity
• RS-232 serial port for configuration and management
• Second RS-232 serial port for control-level daisy chaining (up to 128 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
• Built-in visual and audible alarms
• Built-in ambient temperature sensor

Form Factors
• Industry's highest outlet density (up to 10 outlets per 1U)
• Horizontal (1U) and vertical (0U) models address a wide variety of applications

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	Model	Description
ATP3110	PM10i-10A	10 outlets, 10 A max. branch, IEC 320-C14
ATP3115-001	PM10i-15A	10 outlets, 15 A max. branch, IEC 320-C14
ATP3116	PM10i-16A	10 outlets, 16 A max. branch, IEC 320-C20
ATP3120-001	PM10i-20A	10 outlets, 20 A max. branch, IEC 320-C20
ATP3231-001	PM10i-L30A	10 outlets, 30 A max. branch, NEMA L6-30P
ATP3230	PM10i-32A	10 outlets, 32 A max. branch, IEC 309
ATP3232	PM10i-32Au	10 outlets, 32 A max. branch, unterminated
ATP2116	PM20i-16A	20 outlets, 16 A max. branch, IEC 320-C20
ATP2120-001	PM20i-20A	20 outlets, 20 A max. branch, IEC 320-C20
ATP3130-001	PM20i-L30A	20 outlets, 30 A max. branch, NEMA L6-30P
ATP2132	PM20i-32A	20 outlets, 32 A max. branch, IEC 309
ATP2131	PM20i-32Au	20 outlets, 32 A max. branch, unterminated
CAB0055	PM10i, 10 A Power Cable	8 ft, IEC320-C13 to AS3112, AUS & NZ
CAB0087	PM10i, 10 A Power Cable	8 ft, IEC320-C13 to CEE 7/7 Schuko, Continental EU
CAB0088	PM10i, 10 A Power Cable	8 ft, IEC320-C13 to BS1363, UK & Ireland
CAB0089	PM10i, 10 A Power Cable	8 ft, IEC320-C13 to NEMA 5-15P, USA
CAB0191	PM10i, 15 A Power Cable	8 ft, IEC320-C13 to NEMA 6-15P, USA
CAB0192	PM10i, PM20i, 16 A Power Cable	8 ft, IEC320-C19 to AS3112, AUS & NZ
CAB0193	PM10i, PM20i, 16 A Power Cable	8 ft, IEC320-C19 to CEE 7/7 Schuko, Continental EU
CAB0194	PM10i, PM20i, 16 A Power Cable	8 ft, IEC320-C19 to BS1363, UK & Ireland
CAB0195	PM10i, PM20i, 20 A US Power Cable	8 ft, IEC320-C19 to NEMA 5-20P, USA
CAB0197	PM10i, PM20i, 20 A US Power Cable	8 ft, IEC320-C19 to NEMA L6-20P, USA
CAB0198	PM10i, PM20i, 20 A US Power Cable	8 ft, IEC320-C19 to NEMA L5-20P, USA

IEC

Inputs

NEMA L6-30P
on fixed 8 ft power cord

Unterminated
on fixed 8 ft power cord

IEC-309
on fixed 8 ft power cord

Outlets

IEC 320-C13

IEC 320-C14
modular inlet

IEC 320-C20
modular inlet

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