

Mission Critical Power Protection



DiamondPlus 1100A

Design: Double Conversion On-Line Topology

Power Ratings: 10, 20, 30, 40, 50 kVA

Voltages Input: 208/120V; Output: 208/120V

Design Features:

- ◆ 20 kVA and Above Can be Operated as capacity system or as N+1 system
- ◆ Hot Swappable and On-Line Upgradeable
- ◆ >93% Efficiency
- ◆ Compact Design: 19.7"W x 27"D x 55.1"H
- ◆ 0.9 Power Factor
- ◆ Cable Entrance on Bottom, Side and Rear
- ◆ Two (2) Year Parts and Labor Warranty



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DiamondPlus 1100B

Design: Double Conversion On-Line Topology

Power Ratings: 10, 20, 30, 40, 50, 60, 70, & 80 kVA

Voltage: Input: 208/120V; Output: 208/120V

Design Features:

- ◆ 20 kVA and Above Can be Operated as a Capacity System or as N+1
- ◆ Hot Swappable and On-Line Upgradeable
- ◆ >93% Efficiency
- ◆ Batteries are External for All Models
- ◆ Compact Design: 31.5"W x 27"D x 67.3"H
- ◆ 0.9 Power Factor
- ◆ Cable Entrance on Bottom, Side and Rear
- ◆ Two (2) Year Parts and Labor Warranty

9900 AEGIS™

Design: Double Conversion On-Line Topology

Power Ratings: 80, 100, 150, 160, 225kVA

Voltage: Input: 480; Output: 480

Design Features:

- ◆ Power Factor .99
- ◆ Fully Digital, IGBT SiC (Silicon Carbide) Converter and Inverter –semiconductors
- ◆ Low Input Harmonics, Internal Static Bypass
- ◆ 3 Level Power Conversion Technology
- ◆ Dual Input
- ◆ Front Access Only, 1.1:1 Generator Sizing
- ◆ Available for Parallel Redundant Up to 4 Modules
- ◆ Advanced Circuit Topology and PWM
- ◆ OSHPD Seismic Certification Available
- ◆ Board Level Self Diagnostics
- ◆ UPS Modules UL 1778 Listed
- ◆ Three (3) Year Parts and Labor Warranty
- ◆ 96.5% Efficiency @ 50-100% Load Typical



9900 AEGIS™

Model 9900B

Design: Double Conversion On-Line Topology

Power in KVA Ratings: 300, 500, 750 kVA

Power in KW Ratings: 300, 500, 750 kW

Voltage Options: Input: 480; Output: 480

Design Features:

- ◆ Power Factor 1.0
- ◆ Fully Digital, CSTBT (IGBT) Inverter and Converter Design
- ◆ Low Input Harmonics, Internal Static Bypass
- ◆ 3 Level Power Conversion Technology
- ◆ Dual Input
- ◆ Front Access Only, 1.1:1 Generator Sizing
- ◆ Available for Parallel Redundant & Capacity Applications up to 8 Modules
- ◆ Advanced Circuit Topology and PWM
- ◆ Board Level Self Diagnostics
- ◆ UPS Modules UL 1778 Listed
- ◆ Three (3) Year Parts and Labor Warranty
- ◆ 97% Efficiency @ 50-100% Load Typical, Double Conversion





The new Diamond Pro series is designed specifically for the commercial market and large-scale systems.

The Diamond Pro is a 60 cell high-efficiency module built with four bus bar monocrystalline cells, double anodized silver frame and treated with anti-reflective glass coating for higher performance and reliability.

The module is equipped with Mitsubishi Electric's unique four layer junction box and SMK connectors for the highest standard of safety. Now **1000 VDC rated**, the Diamond Pro is ideal for large-scale installations.

Double coated corrosion resistant frame and screws



Innovate drainage system to keep panels cleaner



Four layer water proof, flame resistant junction box



Non-Porous anti-reflective treated glass



Emergency Lighting Inverters

Model 2033A - Listed UL924

Design: Double conversion, on-line topology

Power Ratings: 30, 50, 75kVA / 3Phase

Voltage Options: Input: 208; Output: 208/120

- ◆ IGBT Converter Inverter Design
- ◆ Dual Input, Low Input Harmonics
- ◆ Internal Maintenance Bypass, 1.1:1 Generator Sizing
- ◆ Front Access Only, Advanced Touch Screen Monitoring
- ◆ UPS Modules UL 1778 Listed
- ◆ Two (2) Year Parts and Labor Warranty
- ◆ Conformally Coated Printed Circuit Boards

kVA	Input/Output	W x D x H inches
30	208/208	35.4x29.5x70.9
50	208/208	43.3x29.5x70.9



EON Listed UL924

Design: Double Conversion, on-line topology

Power Ratings KVA: 10, 13, 14, 15, 16, 17, 20, 22, 24, 26, 28, 30, 32, 33 at 1.0 (unity) power factor

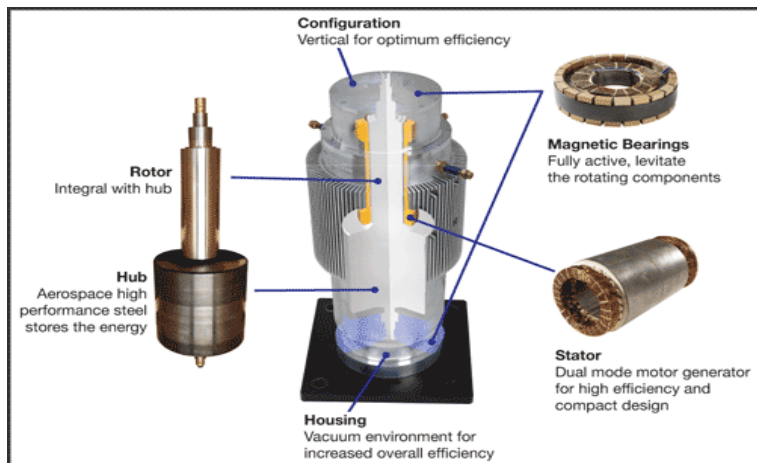
Voltage Ranges (3 phase):

- ◆ Input/output options: 208/120V, 480/277V or 600/347V Wye
- ◆ UL 924 Listed (90min Battery)- Emergency Lighting Equipment
- ◆ C-UL Listed to CSA C22.2 No. 141-10 (30min Battery)

W x D x H inches

68"x33"x77"

DC Storage Using Flywheel



The VDC-XE systems interface with the DC bus of the UPS, just like a bank of batteries, receiving charging current from the UPS and providing DC current to the UPS inverter during discharge.

Providing up to 300kW of instant ride-through power and voltage stabilization in one unit, the VDC-XE bridges the transfer from utility interruption to onsite engine gen-sets upon a prolonged power outage.

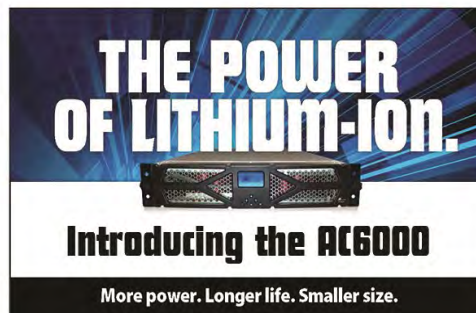
Flywheels can be paralleled for longer runtimes or N+1 redundancy.

Lithium-Ion Battery UPS



Methode AC6000 Uninterruptible Power Supply

- ◆ Voltage: 208V/208V or 240V/240V
- ◆ Supplies 6000W of power for 7 minutes
- ◆ Compact, safe lithium-ion technology
- ◆ Rapid recharge
- ◆ Peak shave capability to supplement power supply during high demand





The Torus Power All-in-One (AIO) provides a comprehensive approach to whole system power conditioning.

The stand-alone electrical panel has two sections. The top section is pre-wired with 24 industrial grade 20A bolt-in breakers, which are fed by robust 1 ¼" x ¼" all copper buss bars. Surge suppression is provided. Clean, isolated power is supplied to the breakers by a toroidal isolation transformer mounted in the lower section of the panel. The AIO uses a separately derived equipment ground (from the isolated ground) making troubleshooting ground loops much easier, and providing an extremely quiet noise floor. Models are rated up to 100Amps, with 240V or 208V in-puts.

The AIO was originally developed for the professional recording studio industry.



Power Conditioning

Ideal solution for the audio/video file industry.

1. True Isolation

- ◆ Torus Power provides true isolation from the external power grid via Plitron toroidal isolation transformer.

2. Noise Attenuation - NBT

- ◆ Narrow Bandwidth Technology (NBT) uses the toroid as a low pass filter.
- ◆ Attenuation from 2kHz to 1MHz at 12dB/decade up to 500kHz.
- ◆ Torus Power does not use passive current-limiting filter banks to achieve attenuation.

3. High Instantaneous Current Capability

- ◆ Torus Power can supply high levels of instantaneous power. This is achieved through an optimally designed transformer which is capable of providing clean and least obstructed power flow.
- ◆ Dynamic loads like amplifiers perform better when they don't have to struggle to get sufficient power from the wall.

4. Series Mode Surge Suppression (SMSS)

- ◆ Meets IEEE C62.41 1991 (6000V, 3000A, 1000 times)
- ◆ Torus Power SMSS absorbs the surge in the toroid and slowly bleeds it to the loads, preventing ground contamination.
- ◆ Torus Power SMSS does not shunt surges to ground like MOVs.
- ◆ SMSS uses all non-sacrificial components (does not require replacement or repair after large surges)



Power Distribution Strips by GEIST

- ◆ Managed ePDU:
Provides monitoring and switching at the individual outlet level.
- ◆ Monitored ePDUs:
Allow users to remotely monitor current draw of the unit and its individual sections.
- ◆ Advanced Monitored ePDU:
Provides outlet-level monitoring of power usage in kilo-watt hours.
- ◆ Switched ePDU:
Provides remote power monitoring of both voltage and current.

Industrial, High Temperature UPS

- ◆ Medical Precision Instrumentation
- ◆ Military Applications
- ◆ Traffic / ITS Industry



Design: On-Line Double Conversion Topology
Power Ratings: 560VA - 3,000VA
Voltage Ratings: 120, 208, 220, 230, 240V



GE Lineage -48vdc



DC Power & Inverter Systems

- ◆ Switchgear, Telecommunication
- ◆ Fiber Optic Cable applications
- ◆ Voltage Ratings: 24vdc, 48vdc, 130vdc input/output
- ◆ Voltage Ratings with Inverter: 24V, 48V Input / 120, 208, 240vAC Output

Smart-UPS by APC

Intelligent and efficient network power protection from entry level to scaleable runtime. Ideal UPS for servers, point-of-sale, routers, switches, hubs and other network devices.



Environmental Monitoring



Authorized ITWatchDogs Distributor



Model WD-15



Model WD-100

- ◆ Temperature
- ◆ Humidity / Dew point
- ◆ Airflow
- ◆ Light Level
- ◆ Sound Level
- ◆ Power Failure
- ◆ Smoke Alarm
- ◆ Auto Dialer feature
- ◆ Current Transducer
- ◆ Carbon Monoxide Alarm

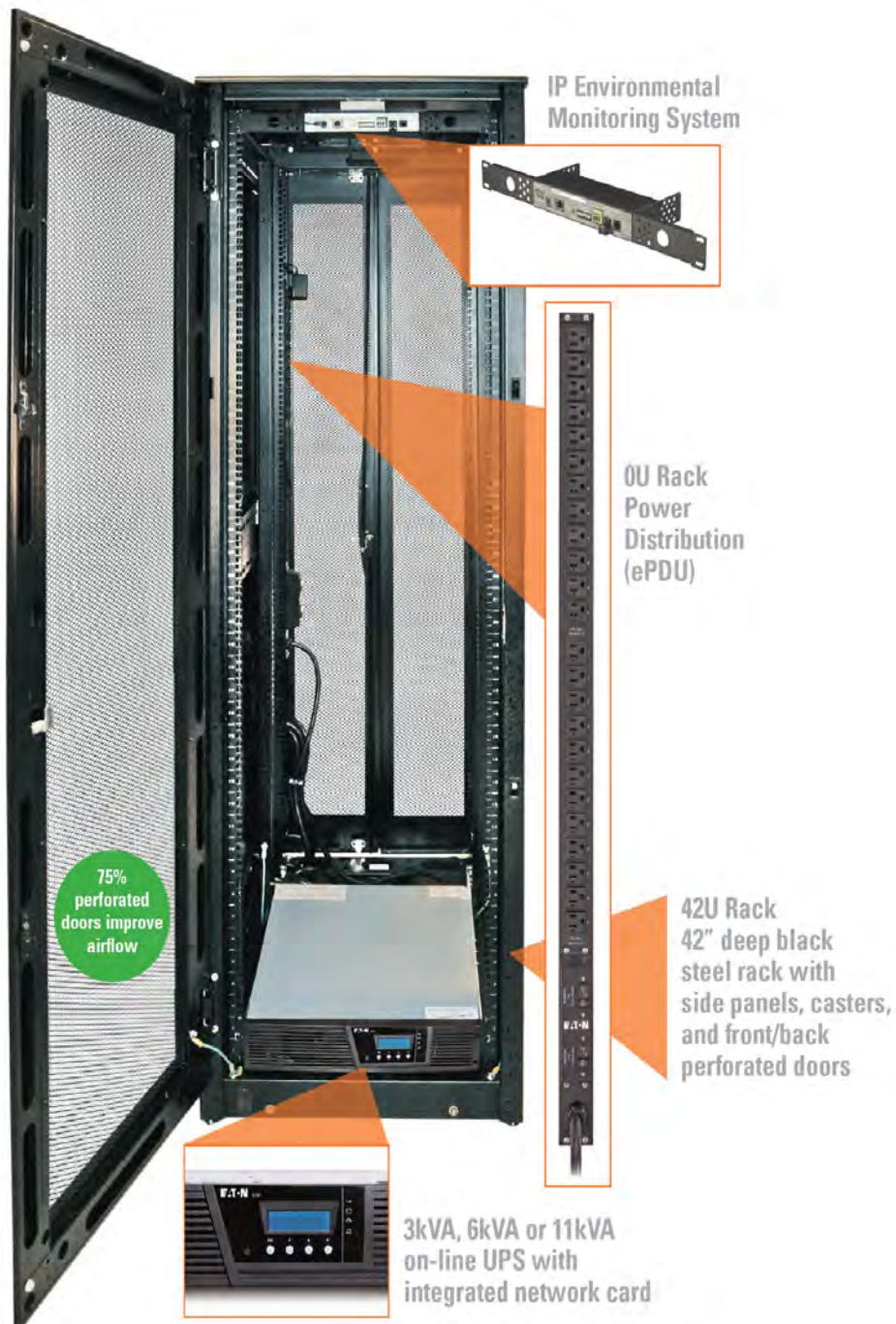
Battery Monitoring and Conditioning System (BMCS)

Benefits of the BMCS:

- ◆ BMCS continuously monitors the status of *each jar*, analyzes and conditions *each jar* for optimum charging within (not +/- .1V) but within +/- .01V.
- ◆ Conditioning each individual jar extends battery life by 50% or more.
- ◆ New jars replacing failed cells will not create any detrimental jar interactions.
- ◆ Monitors Ohmic, Individual Battery Temp, Current, Voltage and most UPS status.



Integrated IT Enclosure Power Solutions



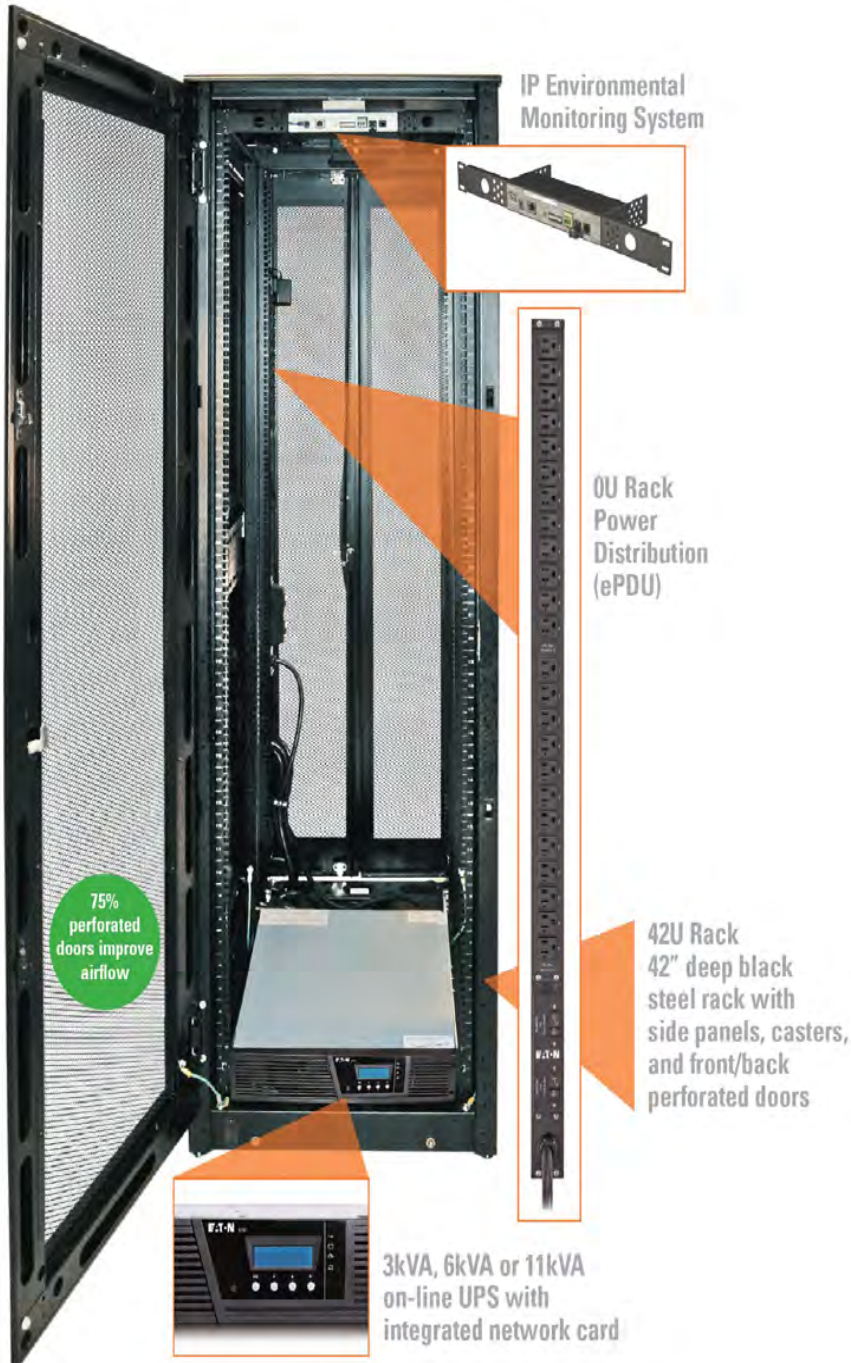
Features and Benefits

- ◆ Factory built and tested, provides rack to rack consistency, reduced IT personnel assembly time, reduced start-up and troubleshooting
- ◆ One part number – one easy shipment
- ◆ Available in 3kVA, 6kVA, or 11kVA for application flexibility
- ◆ 0U rack power distribution unit, improves cable management
- ◆ Two Color Cable Management Kit, reduces chance of powering off the wrong device
- ◆ Single and multiple cabinet configuration available for application flexibility
- ◆ Internally cooled systems available –solves Hot Spot issues

Quick release grounding straps –for easy door removal



Integrated IT Enclosure Power Solutions



Applications For :

1. Facility Managers

- ◆ Protection Against Utility Spikes or Sags
- ◆ Power Protection Against Lightning Strikes

2. I.T. Managers & Directors

- ◆ Enterprise DCIM Software
- ◆ Maintenance Bypass so servers stay on sure power
- ◆ Cabinet with power, air, distribution with detection of heat, smoke or humidity

3. Network Administrators

- ◆ Smart Power Distribution Outlets
- ◆ Remote monitoring both voltage & current

4. Risk Management Team

- ◆ Data and Storage Protection
- ◆ Business Continuous Improvement

For Additional Information:

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Or contact:

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Joseph@powerqualityprofessionals.com

Integrated IT Enclosure Power Solutions

Environmental Monitoring Options

-  External Temp/Humidity/ Dew point Sensors
-  Water Detection Cable/Sensor
-  Smoke Sensor
-  Door Position Sensor
-  Power Failure Sensor
-  Current Transducer
-  Auto Dialer
-  IP Cameras

ReadyRACKS Options

- Extended Battery Module
- Extended Warranty
- PPDM / Maintenance Bypass Panel
- Splitter Cables
- Power / Environmental Management Software
- Enterprise DCIM Software
- Remote eNotify

Custom ReadyRACKS Options

- Metered and Switched ePDUs
- Special ePDU Mounting Brackets
- Integration Services
- Specific UPS Preference
- Available without sides

ReadyRACKS Options	3kVA ReadyRACKS	6kVA ReadyRACKS	6kVA ReadyRACKS With Cooling	11kVA ReadyRACKS
Part #	RRA3K-001	RRA6K-001	RRA6C-001	RRA11K-001
42U Rack 42" Deep - Black Steel Rack with Front and Back 75% Perforated Doors	✓	✓		✓
42U Rack 42" Deep - Black Steel Rack with 3.8kW Cooling Capacity			✓	
3kVA UPS	✓			
6kVA UPS		✓	✓	
11kVA UPS				✓
Integrated Network Card	✓	✓	✓	✓
0U Rack Power Distribution Basic (ePDU) – L5-30P (120VAC) / (24) 5-20R (120VAC)	✓			
0U Rack Power Distribution Basic (ePDU) – L6-20P (208VAC) / (20) IEC 60320 C13 & (4) IEC 60320 C19		✓	✓	
0U Rack Power Distribution Basic (ePDU) – L6-20P (208VAC) / (20) IEC 60320 C13 & (4) IEC 60320 C19				✓
IP Environmental Monitoring System	✓	✓	✓	✓
Two-Color Cable Management Kit	✓			
Two-Color Locking Cable Management Kit		✓	✓	✓
Integrated Cable Management Straps	✓	✓	✓	✓
Quick Release Grounding Straps	✓	✓	✓	✓
Two Year Warranty	✓	✓	✓	✓
Multiple Configurations Available	✓	✓	✓	✓