



Precision Power
Conditioning &
Distribution



Defense & Aerospace

Protecting Automated Test Equipment

Power Conditioning and Distribution for Defense and Aerospace Test Equipment

Modernization of the defense and aerospace industries demands precise automated test systems to optimize equipment which is vital to our national security. Custom power conditioning and power distribution units (PDUs) are essential to the stability of these highly sensitive, mission critical systems.

TEAL works collaboratively with our customers to deliver reliable power conditioning and distribution solutions - from concept, design, prototyping, full production, testing and certification - all the way through sustaining support. TEAL is there every step of the way. We deliver the clean power necessary to enable the highest system uptime and performance of automated test equipment at an affordable cost.

TEAL has over 40 years of proven experience and expertise in powering and protecting test equipment with our innovative PDUs that provide reliable, clean power.

TEAL PDUs Power and Protect Critical Test Systems in Avionic and Ballistic Applications



The TEAL Gatekeeper™ Power Conditioning Unit fits seamlessly in our Power Conditioning and Distribution Racks (PCDRs) and provides and distributes clean AC voltages.



TEAL PDU Specs

- Power ratings from 2 to 100 kVA single phase and 2 to 300 kVA three phase
- Global Delta or wye input voltages 200VAC to 690VAC
- Global wye output voltages 120/208VAC to 277/480VAC
- Meets DOE 2016, NRCan 2019, and NMX 2021 Efficiency Standards
- UL Listed, CSA Certified, ISO 9001:2015
- Frequency 50/60 Hertz
- Faraday shield for common mode noise suppression

TEAL PDU Options and Upgrades

- Power Monitoring
- Surge Suppression
- High Energy Filtering
- Multi-bay Configurations
- EMI Filtering
- UPS's
- EM0/EP0 Mechanism
- Ethernet Switching
- Power Supplies
- Indicator Lights

Critical Automated Test Equipment Utilizing TEAL PDUs



Defense Industry

Customized TEAL power conditioning systems and PDUs deliver clean power to Versatile Diagnostic Automated Test Systems (VDATS) for optimum performance.

- Harpoon Joint Common Test Set (JCTS)
- Air Force Versatile Depot Automatic Test Station (VDATS)
- Guided Missile Test Set (GMTS) for the Minuteman Weapon System LGM-30F (Minuteman II) and LGM-30G (Minuteman III)
- Boeing Multi-Platform Avionics Test System (BMATS)
- Aircraft avionics systems
- Reconfigurable Transportable Consolidated Support System (RTCASS)



Aerospace Industry

Customized TEAL power conditioning PDUs produce clean power for the test systems that are used on commercial avionics equipment.

- Naval anti-ship missile systems
- Long Range Precision Fires (LRPF) Missile systems
- Commercial aircraft ground support equipment

TEAL POWER DISTRIBUTION UNIT BENEFITS



Failure is Not an Option

TEAL's reliable and proven PDU solutions power and protect all levels of automated test equipment (ATE) deployment for mission-critical systems.



PDUs Reduce Operating Costs

Our PDUs increase operational efficiency and productivity by reducing downtime, lowering the cost of replacement parts, and alleviating the need for costly, premature equipment replacement.



Meets Rigorous Requirements & Demands

TEAL PDUs are not only versatile to handle today's complex requirements, but also flexible to adapt to tomorrow's changing demands.



Overcomes Volatile Power

Protection against utility-generated issues such as transient spikes, electrical noise, and voltage swings, is a continuous challenge around the world. Our PDUs mitigate these issues to ensure quality, accurate testing.



Scalable Solutions for Every Application

TEAL solutions meet exact application needs - from a rack mount PDU integrated into a system, to a turnkey rack solution with all equipment fully installed and ready for operation.

A Flexible + Scalable Solution



Power Monitoring

Our monitor enables you to remotely check power quality for your system using your normal web browser.

TEAL Isolation Transformer

Our patented low impedance isolation transformers are designed for high power loads, delivering peak current to the load with minimal voltage drop and virtually no common mode noise.



Surge Suppression

TEAL offers modular surge suppression systems to reduce transients.

TEALwave® HighEnergy Filtering

TEAL's patented high energy, fast response filtering improves power quality while it protects valuable equipment.



Power Distribution

TEAL systems distribute multiple voltages and power levels to simplify system integration.



SAFETY ASSURANCE

High Power DC

TEAL can provide a variety of regulated or unregulated high power DC outputs, as well as AC outputs, typically >1 kVA.



Voltage Conversion

Our world input voltage capability allows the same power front end to be used for 50/60 Hz, 200V through 480V inputs, nearly anywhere around the globe.



SITE PREP

Site Prep In A Box

Our world input voltage capability allows the same power front end to be used for 50/60 Hz, 200V through 480V inputs, nearly anywhere around the globe.



REMOTE MONITORING

To learn more about TEAL, scan the QR code or visit us at www.mtecorp.com/teal



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