






High Power Solutions

<p><i>DC Power Supplies from 5KW to 15MW</i></p> <p>PCTI's regulated DC power supplies are a solid state unit utilizing primary SCR (thyristor) technology in a full-bridge rectifier, constant voltage control, constant current control, automatic crossover series regulation, DC filter, instrumentation, and many operational and protective monitoring features. PCTI's DC Power Supplies achieve high efficiency, low ripple, precise regulation and low output noise. Power supply designs are available in ratings from 5KW to 15MW with current ratings up to 120kA.</p> <ul style="list-style-type: none"> * Three Phase, 6-1000V, 50-10,000A * Three Phase, 6-1000V, 50-1,000A * Three Phase, 6-1000V, 25-1,000A * Single Phase, 6-1000V, 50-200A * Single Phase, 6-1,000V, 2-200A * Single Phase, 6-1000V, 25-200A 	
<p><i>Frequency Converters from 1KVA to 2MVA</i></p> <p>PCTI can provide the frequency converter you need for any commercial, industrial or military application from 3.5KVA to 500KVA. Our frequency converters are available as mobile, towable, bridgemount or freestanding units to standards including MIL-STD-704F, MIL-STD-810, MIL-STD-461 and others</p>	
<p><i>High-Current Battery Chargers and Dischargers from 5KW to 2MW</i></p> <p>PCTI offers rugged high-current battery chargers and optional discharger capability into the AC grid to meet all of your high-current industrial charging applications from 25 to 2000A and up to 1000V. Our standard battery charger includes a battery eliminator, float and equalize adjustments, manual equalize timer, automatic shutdown and restart under a variety of fault conditions, low ripple, and paralleling capability. Options include computer interface, discharge capability, DC circuit breaker, temperature compensation circuit and more. Both SCR and IGBT device topology are available.</p>	
<p><i>Power Inverters from 5KVA to 2.5MVA</i></p> <p>PCTI can provide the inverter/converter you need for your specific application whether you need to change DC or AC to another or change the frequency. PCTI inverters are digital signal processor (DSP) controlled based on IGBT PWM technology. This superior next-generation control allows us to provide a single control board solution for the inverter, thus increasing reliability by reducing control components.</p>	
<p><i>3rd Rail Transportation Maintenance Inverter From 3KVA to 150KVA</i></p> <p>PCTI's portable third rail inverter is powered directly from the 600VDC third rail to provide clean power for track tools. The unique software capabilities of the digital signal processor (DSP) control allow for universal input. The inverter can take the typically dirty power within a wide range from 300V to 700VDC and convert it to clean sine wave power to power the most sensitive electronic equipment</p>	

PCTI Customers

Because power electronics permeates every industry, PCTI customers span a wide spectrum of applications from painting Mustangs to hypersonic propulsion to charging batteries for use in submarines beneath the ocean depths. The following is a sample of our customer base and their applications.



Industrial/Commercial/Aerospace

BAE Systems
 General Dynamics
 Bechtel International Systems, Inc.
 Ford Motor Company
 NASA
 Raytheon Missile Systems
 General Motors Power Train Division
 NASA Langley
 Delphi Automotive
 Caterpillar
 Mitsubishi
 Occidental Petroleum
 Cutler Hammer
 Gulf Stream/Eaton
 Vermont Yankee Nuclear , Exelon, Georgia Power
 Westinghouse Science & Tech. Center
 Republic Specialty Metals

Application

Computer Controlled Battery Chargers for unmanned submarines
 Submarine Telecommunications System
 High Current Battery Charging System
 Overhead Cranes
 International Space Station
 Alongside Power
 Coating Systems
 Hypersonic Propulsion
 Testing Power Supplies
 Overhead Cranes
 Circuit Breaker Testing Equipment
 Chlor-Alkali Plant
 Circuit Breaker Testing Equipment
 400Hz Frequency Converter
 Utility Circuit Breaker Testing
 High Frequency Metal Melting Process
 Specialty Steel Furnace

Department of Defense/Military

US Navy
 Bayview Large Scale Vehicles
 NSWC Panama City
 Los Alamitos Naval Air Station
 China Lake Naval Weapons Center
 Jacksonville Naval Air Station
 Pacific Missile Range, Hawaii
 NSWC-Dahlgren, Crane
 Ocean Surveillance Center
 Miramar Naval Air Station
 Seal Beach Naval Weapons Station

US Army
 Fort Campbell
 USCOE Dalles and John Day Dam
 Fort Bragg
 Aberdeen Proving Ground
 Fort Rucker
 Corpus Christie Army Depot

US Marines
 Camp Le Jeune
 Camp Pendleton

US Air Force
 RobinsAFB
 Spangdahlem AFB
 Al Udeid AFB, Qatar
 McClellan Air Force Base
 Tyndall Air Force Base

Other
 Minnesota ANG
 Youngstown
 US Coast Guard Johns Island
 Los Alamos National Laboratory
 Bureau of Reclamation
 WAPA/Department of Energy

Application

PC Controlled Battery Chargers/Dischargers for Submarine
 400Hz Frequency Converters for Aircraft Ground Support
 Aircraft Ground Support
 Advanced Weapons Lab
 Aircraft Ground Support
 Missile Launching Power Supply
 DC System Power Supplies for Communications
 Laboratory Power supply
 400Hz Distribution for Aircraft Ground Support
 Inverters for Solar Powered Offshore Platform
 400Hz Frequency Converters for Aircraft Ground Support
 Battery Chargers
 Vehicle Maintenance Shop
 Heavy Vehicle Engine Starting
 Aircraft Ground Support
 Plating Power Supplies
 Avionics Maintenance Shops
 Aircraft Ground Support, Load Sense Circuitry
 400Hz Frequency Converters for Aircraft Ground Support
 400Hz Frequency Converters for Aircraft Ground Support
 400Hz Frequency Converters for Aircraft Ground Support
 Aircraft Ground Support-Shop
 400Hz Frequency Converters for Aircraft Ground Support
 400Hz Frequency Converters for Aircraft Ground Support ARS
 400Hz Frequency Converters for Aircraft Ground Support
 Aircraft Ground Support
 Research Laboratory
 Battery Chargers
 Battery Chargers

Foreign Military

Royal Dutch Navy
 Pakistani Air Force
 Bangladesh Air Force
 Taiwan Navy
 Egyptian Navy
 Canada Dept. of National Defense
 Ecuadorian Navy

Battery Chargers/Dischargers for Walrus Class Submarine Batteries
 400Hz Frequency Converters for Aircraft Ground Support
 400Hz Frequency Converters for Aircraft Ground Support
 Submarine Battery Charger with PLC Control (640A, 360V)
 Submarine Battery Chargers
 Hotel Power & Alongside Power for Submarines
 Battery Chargers, DC Power Supplies & Inverters