

PCTI Overview



PCTI designs, develops and manufactures highly reliable standard and custom power electronic solutions.





**PCTI has provided
advanced power
electronic solutions to
the Military and Industry
since 1991...**

- **Power Supplies**
- **Battery Chargers**
- **Inverters**
- **Frequency Converters**

...to these customers and others like them.



PCTI provides quality power electronics to many industries...



Renewable Energy



Energy Systems



Aircraft Ground Support



Aerospace



Transportation



Telecommunications



Military



Motor Control

Primary Topologies

- SCR based rectifiers (6, 12 and 18 pulse) - battery chargers and DC power supplies
- DSP Controlled PWM switched mode based on IGBT technology (6, 12 and 18 pulse) – DC power supplies, battery chargers, inverters, frequency converters
- DSP Controlled PWM switched mode based on chopper topology (6, 12 and 18 pulse) - battery chargers and DC power supplies

Frequency Converters for Aircraft Ground Support



US Army Fort Campbell
8-90KVA Triple Input,
Dual Output

Pakistan Army Aviation Dhamial Camp
Bangladesh Air Force
Pakistan Airforce Base - Quetta
Al Udeid Air Force Base, Qatar
Naval Surface Warfare Center—Panama
City, FL

Air Reserve Station Youngstown
Tyndall Air Force Base
Minnesota National Guard – Camp Ripley
US Air Force-Spangdahlem Germany
US Army-Fort Campbell
Tyndall Air Force Base
Robins Air Force Base
USPFO Oregon



Robins Air Force Base
25KVA 400Hz Frequency
Converter, Triple Input
5 Year Contract



Pakistan Airforce Base-Quetta
20KVA, 400Hz
Frequency Converter



DC Power Supplies for Aircraft Ground Support, Military and Industrial Applications



**MARCOR (US Marines)
Ruggedized DC Power
Supply NEMA 4
Enclosure with integral
heat sinks**

**High Precision, Redundant
DC Power Supplies for
Space Shuttle Payloads
NASA**



**30KW Switched Mode
DC Power Supply
Automotive Industry**

**Robins Air Force Base
DC Power Supply
28.5V, 600A, Triple Input
Aircraft Engine Starting**



Battery Chargers for Military and Industrial Applications



Al Quarashi Electric, Saudi Arabia
106KW Battery Charging System
(850A, 125V)

Dutch Navy
Battery Charger and
Discharger for
Submarine Batteries
260KW and 520KW



Egyptian Navy
500KW Submarine
Battery Charger



High Power Projects



**US Navy, Classified Application
Qty: 3, 500KW DC Power Supplies**



**105KW DC Power Supply
Ground Support for
Antimissile Defense System**



**240KW DC Power Supply for
Victoria Class Submarines**

Partial List of PCTI Customers

■ *Military*

Foreign Military Sales

Egyptian Navy

Dutch Navy

Taiwan Navy

Bangladesh Air Force

Pakistani Air Force

Spangdahlem Air Force Base

Al Udeid Air Force Base, Qatar

McClellan Air Force Base

China Lake Naval Weapons Center

Pacific Missile Range, Hawaii

Naval Surface Warfare Center

Camp Le Jeune

Camp Pendleton

Surveillance Center (NRAD)

Seal Beach Naval Weapons Station

Robins Air Force Base

Fort Campbell

Fort Bragg

Fort Hood

Fort Rucker

US Coast Guard

Miaramar Naval Air Station

Air National Guard

Department of Energy

■ *Industrial/Commercial/ Aerospace*

BAE Systems

General Dynamics

Bechtel International Systems, Inc.

NASA

Boeing

Raytheon

Military/Aerospace Applications

Aircraft Ground Support
Avionics Laboratories
Battery Charging
Submarine Shore Power
Submarine Battery Charging
Space Shuttle Payload Power
Communications
Research Laboratories
Battery Testing
Maintenance Hangars
Missile Launch Facilities
Advanced Weapons Laboratory
Electroplating



Power Conversion Technologies: 21st Century Solutions



**90KVA 400Hz Frequency
Converter for Radar
Al Udeid AFB, Qatar**