PCTI Product Capabilities
Quality Power Electronics Applications

Power Conversion Technologies, Inc. is a global leader in providing advanced power electronics solutions to military and commercial industrial customers. PCTI delivers on-time and quality manufactured power electronics products to the Department of Defense, commercial entities, foreign militaries and aerospace firms. PCTI regularly teams with other defense contractors, both large and small, to provide the best team with the most appropriate capabilities and past performance to meet the requirements of a particular program or project. All of our products are available in a variety of inputs and outputs with a variety of options.

PCTI’s primary products include 400Hz frequency converters for aircraft ground support, 28V DC power supplies for aircraft engine starting, battery chargers and inverters. Our primary products are based on standardized designs with proven technologies that have been reliably performing in the field since 1991. PCTI also provides custom power electronic equipment to meet the diverse requirements of global contractors.
PCTI Industrial Battery Chargers
Ranging from 5KW to 50KW

Battery Chargers
Army Corps of Engineers
Battery Chargers
Power Rating: 20, 25 and 46KW
Output: 150, 200 and 400A, 125VDC
Application: Relay Stations

Battery Charger for Minesweeper
Input: 450V, 50Hz
Output: 140ADC, 24VDC
Stainless Steel Enclosure

Al Quarashi Electric, Saudi Arabia
106KW PLC Controlled Battery Charging System
with Dropper Panel
Input: 480V, Output: 850A, 125VDC

PCTI Industrial Battery Chargers
Ranging from 5KW to 50KW
Inverters

50KVA DC/AC Inverter
Input: 60A, Output: 480VDC, 250VAC

3.5KVA 3rd Rail Transportation Inverter
Used for electric bus and subway rail maintenance
(120VAC, 1 Phase Output)
Can power a 4 1/2HP compressor. Operates off of input
directly from 3rd rail. Lightest available on the market,
weighing only 42 lbs. Current maintenance alternative is
bringing a fuel powered generator.

250KVA Inverter
Input: 480V, 3 Phase, 60Hz
Output: 3000A AC, 140V AC, 1300Hz

2KVA Inverter accepting 240V to 312VDC input, providing
120VAC, 1 phase, 60Hz output. Line and Load
regulation 1% THD 2% for linear loads.
Application: provides uninterruptible power
to remove terminals on SCADA system.
Switchmode Power Supply

30KW (50A, 500V) and 100KW (200A, 500V)
Switched Mode DC Power Supply
PCTI can provide the highest power SMPS available globally.

AC/DC Power Supply accepts universal input from 187-532V, 3 phase and provides 650VDC at 8A and is controlled via RS232 interface.
Application: Infrared Lamp

SDC line of SMPS accepts AC or DC input power at any frequency between 50 and 440Hz without derating. Power ratings starting at 2KVA and up.

10KW individual SMPS in parallelable rack units (120KW total output available) with IEEE488 computer interface.
Application: Telecommunication
Military Projects

80KVA 400Hz Frequency Converter for Radar
Input: 208VAC, 3 phase, 60Hz
Triple Output: 400A, 208/120VAC
Ruggedized for desert conditions
Al Udied AFB, Qatar

10KW Ruggedized Inverter
NEMA 6P/IP67 Submersible Enclosure
Input: 198-264V, 3 Phase
Output: 100A, 120/240VDC, 3 Phase
For Mobile Ground Control Substation

Battery Charger and Discharger for Submarine Batteries (Cover Page)
Dual Input: 440V/50Hz, 480V, 60Hz. Output: 400ADC & 800ADC
350-650VDC, 520KW & 260KW

25KVA 400Hz Frequency Converter for Aircraft Ground Support
Triple Input: 120/208V, 277/480, 380V, 50/60Hz
US Air Force
5 Year Contract
90KVA 400Hz Frequency Converter
For Aircraft Ground Support

80KVA 400Hz Frequency Converter for Radar
Input: 208VAC, 3 phase, 60Hz
Triple Output: 400A, 208/120VAC
Ruggedized for desert conditions
Al Udied AFB, Qatar

10 KVA 400Hz Frequency Converter
For Aircraft Ground Support

4.5KVA 400Hz DSP controlled IGBT
based frequency converter with
115/200V 3 phase input. Rack
mounted in a vehicle for
communications application.
200KW DC Power Supply
For testing submarine equipment in shipyard
Input: 480V; Output: 500ADC, 300-720VDC
Enclosure: NEMA 3R Stainless Steel

240KW DC Power Supply
Supply power to Victoria class submarines as substitute for batteries
Input: 480V or 600V. Output: 500ADC, 480VDC

400KW DC Power Supply
for NASA Langley Research Group
Output: 400A, 1000V

15MW Transformer Rectifier, powered a chlor-alkali plant. Output: 130VDC, 115kA
12 pulse rectifier with 200KW closed loop water to water cooling system with dionizer.