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AMTEX
ELECTRONICS

www.amtex.com.au

About Amtex:

Established in 1979 Amtex Electronics is a major supplier & manufacturer of DC Power Supplies. Amtex is a wholly owned Australian company, located in the Sydney suburb of Meadowbank. We have one of the widest selection of power supplies & converters, supported by an industry leading technical & customer service support.

Product Range:

- AC/DC Power supplies
- DC/DC Power supplies
- Battery chargers
- DIN Rail (AC/DC & DC/DC)
- DC/AC power inverters
- Frequency converters
- Laboratory/Bench power supplies
- LED supplies
- EMC line filters
- Customised DC power supplies...give us your specifications and we will do the rest.

Our Expertise:

Our dedicated team of Sales Engineers will assist you with the most cost effective solution for your needs, whether it's just a one off, or you need high volume.

Our Engineering Department has many years of design and can assist customers with simple modifications, through to system design reviews, safety compliance, to full custom design solutions with little or no NRE charges.

Our Production has been specially set up to cater from one off build's through to high volume cost effective runs. Combined with an extensive inventory for same day delivery provides customers with the best delivery time possible.

Our Service does not end once you have made a purchase...our products are backed by our Customer Support/Service to assist customers with install issues, on-site support and repairs to minimize down time.



AC/DC Power Supplies

Sect 1

Standard / General Purpose AC/DC Power supplies available with:

- Output voltages 3 - 48vdc
- Power levels from 5 - 3000 watts
- Enclosed vented case
- International approvals



Modular AC/DC Power supplies:

- Power levels from 200 – 2000 watts
- Single & Multi output options
- Can be configured / assembled in minutes from standard Power Pacs and output modules.
- Able to create an endless selection of output voltage options



Din Rail AC/DC Power supplies:

- Power levels from 10 – 960 watts
- Industry standard Din Rail mounting
- 1phase & 3phase input options
- Output options 5-48vdc
- Some models can be used for battery charging applications



Low Power AC/DC Power supplies:

- Open Frame or enclosed case
- Power levels from 10 – 120 watts
- IT safety approvals
- Medical safety approvals
- Single and multi output



Custom Made AC/DC Power supplies:

For non-standard specifications, we are able to design & manufacture power supplies to suit unique customer specifications and applications, from 100 ~ 5000 watts



AC/DC External Power Supplies

Sect 2

AC/DC Plug Packs: FPA Series

- Output voltages 3 - 24vdc
- 18 watts output power
- Standard 2.1 or 2.5mm barrel plugs
- Non standard output plug options
- AS/NZ60950 Safety Approvals
- C-Tick marked
- Low cost solution



AC/DC External Power supplies: GPA / CAE60 Series

- Power levels: 18W, 45W & 65W
- Output voltages options: 3 - 24vdc
- Standard 2.1 or 2.5mm barrel plugs
- Non standard output plug options
- AS/NZ60950 Safety Approvals
- C-Tick marked
- Low cost solution



AC/DC External Power supplies: AHM85-250 Series

- Five power levels
- 85, 100, 150, 180 & 250 watts
- IT & Medical Safety Approvals
- <0.5W No Load input Power
- High Efficiency
- Output voltage options, 12-48Vdc
- AS/NZ 60950 approval
- C-Tick marked



AC/DC External Power supplies: Medical Approvals

- Seven power levels
- 45, 60, 85, 100, 150, 180 & 250 watts
- IT & Medical Safety Approvals
- <0.5W No Load input Power
- High Efficiency
- Output voltage options, 12-48Vdc
- AS/NZ 60950 approval
- C-Tick marked



DC/DC Converters: PCB Mounting

Sect 3

DC/DC Converters: Industrial

Sect 4

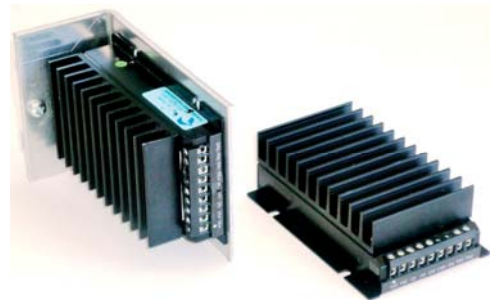
DC/DC Converters Low Power

- Output power levels 10 – 60 watts
- Single & Dual output options
- Enclosed vented case / Panel Mount
- Din Rail Mount options
- Output options 3 – 48V
- OVP & Overload protection
- Wide 4:1 input range



DC/DC Converters Medium Power

- Output power levels 75 – 150 watts
- Single & Dual output options
- Enclosed vented case / Panel Mount
- Din Rail Mount options
- Output options 3 – 48V
- OVP & Overload protection
- Wide 4:1 input range



DC/DC Converters- Industrial Grade

- Output power levels 100 – 700 watts
- Standard and made to order models
- Any input from 12- 800VDC possible
- Any output 12 – 250VDC possible
- Alarm features
- N+1 Redundancy options



DC/DC Converters High Power

- Output power levels 700- 2500 watts
- Standard and made to order models
- Any input from 12- 250VDC possible
- Any output 12 – 250VDC possible
- Alarm features
- N+1 Redundancy options



DC/DC Converters Modular Design

For Critical Load applications, the ability to have continuous power, even if a module were to fail, the "Modular" system concept is the only solution for system reliability

- Complete systems made to order
- Power levels from 500 – 10KW
- Alarm features
- N+1 Redundancy
- Hot-swap capability of modules



DC/DC Converters: Rail

Sect 5

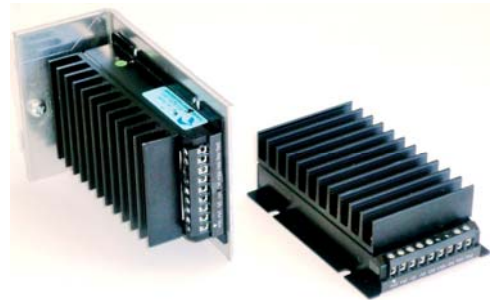
DC/DC Power Modules

- Output power levels 30 – 150 watts
- Wide input range 43~160Vdc
- Single & Dual output options
- PCB mounting & Panel Mount
- Output options 3 – 48V
- OVP & Overload protection



DC/DC Converters High Power Density

- Output power level 150 watts
- Single & Dual output options
- Enclosed vented case / Panel Mount
- Din Rail Mount options
- Output options 3 – 48V
- OVP & Overload protection
- Wide input 4:1 input range



DC/DC Converters- DCWR Series

- Output power levels 100 – 500 watts
- Standard and made to order models
- Any input from 24- 160VDC possible
- Any output 12 – 250VDC possible
- Alarm features
- N+1 Redundancy options



DC/DC Converters –RWY Series

- Fully encapsulated
- Output power levels 50 – 300 watts
- Standard and made to order models
- Any input from 24- 250VDC possible
- Any output 12 – 250VDC possible
- Alarm features
- N+1 Redundancy options



DC/DC Converters – Rail Applications

Amtex specialise in the design and manufacture of a wide range of dc/dc converters for Rail applications. No project too small or too large. Our flexible designs allows us to meet most requirements with no design / set-up fees.



Battery Chargers

Sect 6

Battery Chargers for Cyclic Applications

- Output power levels 40 – 240 watts
- 12V, 24V, 36V and 48V options
- 3Step Charge with timer
- Australian safety approvals
- Overload protection
- Custom designed to your specifications



Battery Chargers for Stand By (DC UPS)

- Output power levels 50 – 2000 watts
- Any voltage from 12 – 250vdc
- Convection cooled – No Fan models
- Industrial grade design
- Various mechanical styles
- Custom designed to your specifications
- Alarm options
- Battery Test option



Rack Mount Battery Chargers

- Output power levels 50 – 2000 watts
- Any voltage from 12 – 250vdc
- Industrial grade design
- Various 19in Rack mount options
- Custom designed to your specifications



Modular / Rack Mount Battery Chargers

- Output power levels 500 – 10KW watts
- Any voltage from 12 – 250vdc possible
- Plug-in modules with "Hot-Swap" capability
- Alarm features
- N+1 Redundancy options
- Totally customised to your specifications
- Designed for "Critical" applications



Wall Mount Battery Chargers

- Output power levels 100 – 1,000 watts
- Standard and made to order models
- Any output 12 – 125vdc
- Alarm features

A range of low power solutions available for Security and Access Control applications



LED Power Supplies

Sect 7

IP67 LED Power Supplies – LXV Series

- IP67 Waterproof case
- Single phase 90-264VAC input
- Constant Voltage model up to 300 watts
- Constant Current models up to 200 watts
- Constant Current / Dimmable up to 200 watts
- Wide range of output voltage options up to 150V
- High efficiency up to 97%
- -35°C to 70°C Operating Temperature
- EN61347-1, -2, -13 Compliant / AS approvals



IP67 LED Power Supplies – DLG Series

- IP67 Waterproof case
- Single phase 90-264VAC input
- Constant Voltage model up to 150 watts
- Constant Current models up to 150 watts
- 12-54V output models
- Active PFC (typically 0.94)
- -30°C to 70°C Operating Temperature
- EN61347-1, -2, -13 Compliant / AS approvals



LED Power Supply – GWS Series

- Single phase 90-264VAC input
- Convection cooled 250 watt output power
- 12-48V output models with wide output adjustment
- Low profile 1U (41mm)
- Constant Voltage mode
- High efficiency up to 93%
- International Safety approvals
- Optional 500W (fan cooled) models



LED Power Supplies – SCC / SCV Series

- Constant Voltage & Constant Current options
- 12V and 24Vdc output models
- Output power 6 ~ 75 watts
- High Efficiency up to 85%
- Power Factor Correction typically 0.85
- IP20 enclosure for indoor use
- Output short circuit protection
- Safety: EN61347-1 & -2 / AS approvals



LED Power Supplies – GPA Series

- Constant Voltage mode
- 12V and 24Vdc output models
- Output power 18 – 60 watts
- High Efficiency up to 85%
- Safety & EMC approvals
- Custom models available



Medical Power Supplies

Sect 8

AC/DC PCB Mounting - ECL Series

- Open Frame PCB mounting
- Encapsulated PCB mounting
- Single & Dual Output models
- Output voltage options 3.3 – 48V
- Single phase 90-264VAC input
- International Medical Approvals
- <0.3W No Load Input Power
- -20°C to +70°C operating temperature



AC/DC Open Frame – ECM / ECS Series

- Medical approvals to 3rd Edition
- Single phase 90-264VAC input
- Open Frame and Enclosed style
- Power levels from 25 to 150 watts
- Single and multi output models
- Industry standard 2 x 4in & 2 x 3in package



AC/DC Mid-High Power – MHP Series

- Medical approvals to 3rd Edition
- Single phase 90-264VAC input
- Power levels from 300 to 1000 watts
- Single output voltages from 12- 48Vdc
- -20°C to +70°C operation
- Variable Fan Speed for noise reduction
- Rugged Construction
- Active Current Share
- 5V Standby



External AC/DC Power Supplies

- Six power levels from 45 – 250 watts
- Universal 80 ~ 264VAC input
- Single output options 5 – 48vdc
- High Efficiency up to 95%
- Class I & Class II insulation options
- International medical approvals
- Energy Efficiency Level V
- <0.5W No Load input power



19in Rack Mount Solutions

Sect 9

Standard 19in Rack Mount Solutions

- 1U, 2U or 3U, 19in Racks
- Sturdy / High quality metal work
- Range of standard front & rear panels, allows for speedy assembly and delivery
- No order too small or too large
- Custom racks to your specifications
- AC/DC or DC/DC Systems



Racks with meters

- V and A Digital meters
- Voltage up to 125V
- Current up to 50A
- Convection cooled dc power supplies
- Battery charging systems



19in Power Racks Systems-Made to Order

- We can design, manufacture and deliver DC Power Systems for 19in Rack mounting, to customer specifications.



Modular 19in Rack Mount Systems

- Output power levels 500 – 5KW
- Any voltage from 12 – 250vdc possible
- Plug-in modules with "Hot-Swap" capability
- Alarm features
- N+1 Redundancy options
- Totally customised to your specifications
- Designed for "Critical" applications



Low profile 1U x 19in Rack Systems

- Output power levels 100 – 1,000 watts
- Single output voltage options to 250Vdc
- Multi output up to 10 outputs



DC/AC Industrial & Rail Power Inverters

Sect 10

CSI / RSI Series

- Five power levels 150 ~ 500 watts
- Industrial grade, convection / conduction cooling...no fans
- Any input from 12-250VDC is possible
- No order too small or too large for special requests.
- Output options of 115 / 230VAC single phase
- Frequency options form 50 ~ 400Hz
- Designed for Rail Applications and other harsh environments.



CSI1K – CSI2K Series

- Three power levels 1000 ~ 2000 watts
- On board fan cooling
- Any input from 24-250VDC is possible
- No order too small or too large for special requests.
- Output options of 115 / 230VAC single phase
- Frequency options form 50 ~ 400Hz
- Various alarms options



CSI2K5 – CSI4K Series

- Three power levels 2500 ~ 4000 watts
- On board fan cooling
- Any input from 24-250VDC is possible
- No order too small or too large for special requests.
- Output options of 115 / 230VAC single phase
- Frequency options form 50 ~ 400Hz
- Various alarms options



CTP Series

- Three phase output 115VAC / 208VAC/ 415VAC
- Any input from 24-250VDC is possible
- No order too small or too large for special requests.
- Frequency options form 50 ~ 400Hz
- Various alarms options
- Power levels from 1.5 ~ 6KW



Customised Inverters

Our flexible design allows us to design and manufacture a wide range of sine wave inverters for industrial and rail applications



Programmable DC Power Supplies

Sect 11

GEN750-1500W Series

- High power density 750 / 1500W in 1U Rack
- Output voltage up to 600V, current up to 200A
- Built-in RS232 / RS485 Interface standard
- Parallel operation, Last Setting memory
- Reliable encoders for Voltage & Current adjustment
- Options: IEEE Multi-Drop, GPIB, LAN
- Universal input: 90-264Vac



GEN2.4 – 3.3KW Series

- 2.4KW in 1U Rack, 3.3KW in 2U Rack
- Output voltage up to 600V, current up to 400A
- Built-in RS232 / RS485 Interface standard
- Parallel operation, Last Setting memory
- Reliable encoders for Voltage & Current adjustment
- Options: IEEE Multi-Drop, GPIB, LAN
- 1phase & 3phase input options



GEN5KW Series

- 5KW in 2U Rack
- Output voltage up to 600V, current up to 600A
- Built-in RS232 / RS485 Interface standard
- Parallel operation, Last Setting memory
- Reliable encoders for Voltage & Current adjustment
- Options: IEEE Multi-Drop, GPIB, LAN
- 3phase input



Z+ Series

- New generation high power density 2U height
- Four power levels 200 – 800 watts
- Output voltage up to 100V and current up to 60A
- Built-in USB, RS-232 & RS-485 Interface
- Auto-Re-Start / Safe-Start: user selectable
- Last Setting memory
- Options: IEEE / GPIB , LAN



PSLAB Series

For a general purpose variable bench dc supply, our low cost PSLAB series is an ideal choice.

- Simple operation
- 0-100% Voltage & Current front panel adjustments
- Coarse & Fine voltage controls
- LED meters for Voltage & Current
- Constant Voltage & Constant Current operation
- Five models to choose from up to 60V.



Industrial DC Power Supplies

Sect 12

For over 30 years, **AMTEX** Electronics has specialized in the design, development and manufacture of rugged, high performance switching power supplies for industrial applications.

Our primary goal is to design and build dc power solutions to meet customers' unique requirements. We can meet almost any electrical configuration requirements with output power ranging from a few watts to several kilowatts. Drawing on three decades of expertise, our electrical and mechanical teams are able to keep design costs low, even for complex, highly customized projects....no project is too small or too large.

The samples below are aimed to give you an idea of some unique power supplies that we designed and supplied over the years.

Rugged / Portable Battery Charger

This battery charger was designed for a Rail customer. The unit operates from a nominal 240VAC supply and provides an output of 132Vdc /11A. The module has built-in standard protection features, but at customer's request, input and output circuit breakers for operational procedures were added.

A timer is also added that automatically terminates the charge after a designated time (4hrs) and the unit is assemble in a heavy-duty Pelican case for transport and field use.

A wide variety of similar chargers can be made for any unique application.



Low Profile AC/DC Power Supply

Designed for a motorway project, the requirement was for a convection cooled (no fans) low profile <2U, Rack mount 1600 watts ac/dc power supply.

The unit is made up of a number of internal sub-modules all connected in parallel to provide the required 1600 watts of power.

The chassis forms part of the heatsink / cooling for the internal modules.

Excellent, simple design with no compromise on performance.



Battery Charger for Mining application.

This 4U x 19in power shelf was designed to accept three, 300 watt, 4Ux16HP plug-in rectifier modules.

Each module is able to supply 13.5V 300W and all three units operate in parallel for N+1 redundancy.

Added circuit breakers for input power, output DC, plus battery breaker is part of the rack assembly.

Two pair of digital (LCD) meters to monitor output load and battery condition all mounted on the front panel of the rack.

The 300W rectifiers are convection cooled for additional reliability in a demanding mining installation.



Over the 20+ years, we have designed and delivered an wide range of similar and more complex power system with either AC input of DC input.

Sales & Engineering Depts.

Sect 13

Sales Department.

The landscape of the Australian Electronics Industry in the 30+ years that Amtex has been in business has changed dramatically.

Our team of Sales & Application Engineers however, have continued to provide the same level of service and product expertise that has allowed us to continue to grow.

In fact, the commercial stability and reliability of Amtex in servicing major projects, has been a key part of our success.

Selecting the most suitable power supply for customers' application, is and will continue to be the primary focus of our team.



Service & Engineering Departments.

After sales service is also part of what we offer our customer base.

Our Engineering and Service Departments continue to provide failure analysis of faulty product and technical input into various application issues.



Service Department.

The selection of the correct product is paramount in the "long term" reliability of products and industrial installations.

Our Service Department will log every unit returned for evaluation for future statistical analysis and on-going product development / improvement.





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