Power Supplies and Coils

PBF product datasheets and applications

HY-LINE GmbH
162W ACDC Power Supply Unit

Description
This 162W rack mounted ACDC Power supply is designed for electron microscopes. The unit provides 7 stabilized outputs with extremely low ripple voltage.

Specifications
- Product name: PRA162
- Input voltage: 90...264Vac; 50/60Hz
- Output V1: +/-150V/0.2A; ripple 500uVrms
- Output V2: +/-180V/0.15A; ripple 500uVrms
- Output V3: +/-15V/2A; ripple 500uVrms
- Output V4: +5V/1.5A; ripple 2mVrms
- Power factor: > 0.93
- Efficiency: >75%
- Safety: EN 60950
- EMC: EN55022 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0...50°C
- Dimensions: 483 x 89 x 260mm

Applications
- Industrial applications: Electron Microscopes
Corrector Cabinet with up to 64 current sources

**Description**
This Corrector Cabinet is designed for Electron Microscopes. It provides 32-64 computer controllable current sources with ultra low noise.

**Specifications**
- Product name: Corrector Cabinet
- Input voltage: 198...264Vac, 50/60Hz
- CDU1: 32 current sources up to 2A
- CDU2: 32 current sources up to 2A
- Output current drift: < 2.5ppm/°C
- Output current noise: < 0.2ppm-rms
- EMC: IEC61326-1, Semi F47
- Safety: EN 60950, Semi S2
- Protections: Short circuit, Thermal
- Temperature range: 15...30°C
- Dimensions: 1120 x 700 x 800 mm

**Applications**
- Industrial applications: Electron Microscopes
External Transformer Unit 30kVA

Description
This External Transformer Unit acts as a frontend to make user equipment suitable for connection to worldwide mains voltages.
It has no galvanic isolation and is equipped with EMO circuits.

Specifications
- Product name: ETU30KVA
- Voltage setting: tap up or down by internal wire
- Output voltage: 400Vac-3ph / 50-60Hz
- Auxiliary outputs: 24Vdc/10A and 230Vac/3.5A
- Output Power: 0...30kVA
- Dimensions: 600 x 800 x 800mm
- Safety: EN 61010, NFPA 79, SEMI S8,S10, EN 60950
- Protections: Safety relay, Emergency Stop, Thermal
- Temperature range: 0...45°C

Applications
- Industrial applications: Laser systems
External Transformer Unit 60kVA

Description
This External Transformer Unit acts as a frontend to make user equipment suitable for connection to worldwide mains voltages. It has no galvanic isolation and is equipped with EMO circuits.

Specifications
- Product name: ETU60KVA
- Voltage setting: tap up or down by internal wire
- Output voltage: 400Vac-3ph / 50-60Hz
- Auxiliary outputs: 24Vdc/10A and 230Vac/3.5A
- Output Power: 0…60kVA
- Dimensions: 800 x 973 x 880 mm
- Safety: EN 61010, NFPA 79, SEMI S8,S10, EN 60950
- Protections: Safety relay, Emergency Stop, Thermal
- Temperature range: 0…45°C

Applications
- Industrial applications: aser systems
Controllable Current Source up to 500A

**Description**
This controllable current source can control its output current from 0...500A based on a PWM input signal. It can handle a power of 300KVA up to 10 seconds.

**Specifications**
- Productname: BUS500A
- Input voltage range: 323...600Vac / 45-65Hz
- Output voltage: 0...600Vdc
- Output Current: 0...500Adc
- Input signal for 0-500A: 10...90% duty cycle
- Protections: Overcurrent, overvoltage, Temp.
- Programmable I2T limitation and current limits
- Redundant current measurement and protections
- Current and I2T monitoring
- Temperature range: 0...50°C
- Dimensions: 300 x 602 x 215mm
- Weight: < 45kg

**Applications**
- Rotating UPS systems
54W DCDC converter with 11 outputs

Description
This 54W multiple outputs open frame DCDC converter is designed for scientific equipment.

Specifications
- Product name: LPB
- Input voltage: 330...400Vdc or 36...50Vdc
- Output V1-V4: +48V/100mA
- Output V5: +48V / 250mA
- Output V6: +12V / 70mA
- Output V7: +6V / 1000mA
- Output V8: +5V / 5000mA
- Output V9: +3.3V / 5000mA
- Output V10: +2.5V / 1300mA
- Output V11: +1.8V / 850mA
- RS485 (modbus) interface
- Monitoring of all outputs
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0...50°C

Applications
- Industrial: scientific measurement on sea ground
6500W ACDC Power supply

Description
This ACDC Power supply is designed for Electro Chemical Machining production equipment. It can provide current pulses up to 100A and to a maximum voltage of 65V.

Specifications
- Product name: PBL6000
- Input voltage: 180...264Vac; 50/60Hz
- Output voltage: 8...65V
- Output current: 0...100A
- Power factor: > 0.98
- Efficiency: > 92%
- Puls specifications: 0...1kHz and 0...100% duty cycle
- Safety: EN 60950
- Protections: Safety relay, Emergency Stop, Thermal
- Temperature range: 0...40°C
- Dimensions: 395 x 131 x 307 mm

Applications
- Industrial applications: Electro-chemical processes
Power supply Cabinet 39kW

Description
This Power supply Cabinet is designed for Electro Chemical Machining production equipment. It can provide current pulses up to 600A and to a maximum voltage of 65V.

Specifications
- Product name: IPPG
- Input voltage: 400Vac-3ph + Neutral; 50/60Hz
- Output voltage: 8...65V
- Output current: 0...600A
- Power factor: > 0.98
- Efficiency: > 92%
- Puls specifications: 0...1kHz and 0...100% duty cycle
- Safety: EN 60950
- Protections: Safety relay, Emergency Stop, Thermal
- Temperature range: 0...40°C
- Dimensions: 1800 x 600 x 800 mm

Applications
- Industrial applications: Electro-chemical processes
Bipolar current source 1200A

Description
This ACDC Power supply is designed for Electro Chemical processes. It is a real current source and can provide current pulses up to 1200A to a maximum voltage of 20V.

Specifications
- Product name: PRA1200
- Input voltage: 400Vac-3 phase; 50/60Hz
- Output voltage: -20…20V
- Output current: -1200…1200A
- Current ripple: 0.1%
- Power factor: > 0.94
- Efficiency: 85%
- Delivers current pulses based on input signal value
- Safety: EN 60950
- Info display
- Dimensions: 483 x 178 x 453mm

Applications
- Industrial applications: Electro Chemical processes
Bipolar current source 10000A

**Description**
This ACDC Power supply system is designed for Electro Chemical processes. It is a real current source and can provide current pulses up to 10000A to a maximum voltage of 20V.

**Specifications**
- Product name: PCS12KA
- Input voltage: 400Vac-3 phase; 50/60Hz
- Efficiency: 85%
- Output voltage: -20...20V
- Output current: -10000...10000A
- Current ripple: 0.1%
- Power factor: > 0.94
- Temperature range: 10...40°C
- Redundant system with 8 units working in parallel
- Easy maintenance; all units are pluggable
- Delivers current pulses based on input signal value
- Info displays
- Dimensions: 1900 x 800 x 800mm

**Applications**
- Industrial applications: Electro Chemical processes
250W ACDC Power Supply with 3 outputs

**Description**
This 250W ACDC Power supply is designed for speed camera applications. It provides 2 voltage outputs and 1 current source.

**Specifications**
- Product name: PGM300
- Input voltage: 90…264Vac; 50/60Hz
- Power factor: > 0.95
- Output V1: +12V / 12.5A
- Output V2: +12V / 5A
- Output V3: +48V / 0.9A (current source)
- Efficiency: 93%
- CAN Interface, with remote data logging and monitoring
- Safety: EN 60950
- EMC: EN61000-6-2, EN61000-3
- Cooling: free air convection
- Protections: Overvoltage, Overcurrent, Thermal
- Temp. range: -25…60°C (derating -2.5%/°C up to 70°C)
- Dimensions: 205 x 175 x 85mm

**Applications**
- Industrial applications: Speed camera
300W broadcast server power supply

Description
This ACDC powersupply is designed for Broadcast Server applications where redundancy and hotswap functionality is required.

Specifications
- Product name: PHS300
- Nominal input voltage: 90…264Vac
- Output voltages:
  - +12V / 20A
  - +5V / 5A
  - +3.3V / 5A
  - -12V / 0.1A
  - -5V / 0.1A
  - +5V / 2A (STBY)
- Efficiency at 230Vac: 88%
- Current sharing and hotswap function
- EMC: according EN55022 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…50°C
- Dimensions: 71 x 263 x39mm

Applications
- Broadcast Servers; Telecom
2 x 50W Ion Getter Pump power supply

Description
This dual 50W HV power supply is designed for Ion Getter Pump applications where a special output characteristic is required. The unit has a system for current measuring up to 10nA and a CAN-bus interface.

Specifications
- Product name: IGPD
- Nominal input voltage: 180...264Vac
- Power factor: > 0.95
- Output voltages: 2 x 5kV / 0...10mA
- Current limit: 0...1kV/20...30mA
- Current measurement: 10nA...20mA
- Serial Interface: CAN-bus
- MTBF (25°C): 200000Hrs
- Temperature range: 0...40°C
- Safety: EN61010, EN60950
- EMC: EN55011 class B
- Dimensions: 238 x 132 x 250mm

Applications
- For Ion Getter Pumps
2 x 80W Ion Getter Pump dcdc converter

Description
This open frame DCDC HV converter is designed for Ion Getter Pump applications where a special output characteristic is required. The unit also has a system for current measuring up to 10nA.

Specifications
- Product name: PHV2X80DC
- Nominal input voltage: 380Vdc
- Auxiliary input voltages: +24V and +/- 8V
- Output voltage: 3000…7000V
- Current limit characteristic: 0…2kV/40mA; 2…7kV/80W
- Current sensing: 10nA…100mA
- Serial Interface: RS485
- Can be configured as positive or negative output
- MTBF (35°C): 40000Hrs
- Temperature range: 0…45°C
- Dimensions: 275x104x50mm

Applications
- For Ion Getter Pumps
200W Ion Getter Pump Pdcdc converter

Description
This open frame DCDC HV converter is designed for Ion Getter Pump applications where a special output characteristic is required. The unit also has a system for current measuring up to 10nA.

Specifications
- Product name: PHV1X200DC
- Nominal input voltage: 380Vdc
- Auxiliary input voltages: +24V and +/- 8V
- Output voltage: 3000...7000V
- Current limit characteristic: 0...2kV/100mA; 2...7kV/200W
- Current sensing: 10nA...100mA
- Serial Interface: RS485
- Can be configured as positive or negative output
- MTBF (35°C): 40000Hrs
- Temperature range: 0...45°C
- Dimensions: 275x104x50mm

Applications
- For Ion Getter Pumps
Capacitor Charger 4000J/s

**Description**
This 4000J/s Capacitor Charger is designed for industrial eximer Lasers. It can charge capacitors with 0.5A up to 26kV and a maximum repetition rate of 400Hz.

**Specifications**
- Product name: PU3000
- Power: 4000J/sec
- Input voltage: 400Vac or 200Vac-3 phase; 50/60Hz
- Power factor: > 0.85
- Efficiency: 88%
- Output voltage: 0...26kV
- Output current: 0.53A
- Output ripple: < 40Vpp
- Control interface: 8 glasfiber connections
- Protections: short and open circuit, thermal, overvoltage
- Safety: EN 61010
- Temperure range: 15...35°C
- Weight: < 30kg
- Dimensions: 700 x 440 x 170 mm

**Applications**
- Industrial applications: Laser systems
100W ACDC Power Supply with 3 outputs

Description
This 100W rack mounted ACDC Power supply is designed for industrial applications. The unit provides 3 stabilized outputs.

Specifications
- Product name: PRA100M3
- Input voltage: 90...264Vac; 50/60Hz
- Holdup time: >20ms
- Output V1: +5V/8A
- Output V2: +15V/1.6A
- Output V3: -15V/1.6A
- Remote sensing on V1
- Efficiency: >82%
- Safety: EN 60950, EN61010
- EMC: EN55011 class B
- Cooling: free air convection
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0...50°C (derating -2.5%/°C up to 70°C)
- Dimensions: 3HE x 9TE x 160mm

Applications
- Industrial applications
120W ACDC Power Supply

Description
This 120W rack mounted ACDC Power supply is designed for industrial applications. The unit provides a 15V output.

Specifications
- Product name: PRA12015
- Input voltage: 90…264Vac; 50/60Hz
- Holdup time: >20ms
- Output: +15V/8A (voltage control range 12…16V)
- Remote sense
- Remote On/Off
- Efficiency: 87%
- MTBF: >400000hrs
- Safety: EN 60950, EN61010
- EMC: EN55011 class B
- Cooling: free air convection
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0…55°C (derating -3%/°C up to 70°C)
- Dimensions: 3HE x 12TE x 160mm

Applications
- Industrial applications
ACDC power supply 6000W

Description
This 60V/100A ACDC Power supply is designed for Electron Microscopes. It has a low ripple and a very high efficiency.

Specifications
- Product name: PRA6000
- Input voltage: 340V...460Vac-3 phase; 50/60Hz
- Power factor: > 0.85
- Output voltage: 60V
- Output current: 0...100A
- Parallel connection of multiple units possible
- Voltage ripple: < 2mVrms
- Remote sense, output voltage and current monitoring
- Efficiency: 96%
- Temperature range: -10...50°C
- Safety: EN61010, EN 60950
- EMC: EN55022 class B
- Weight: 21 kg
- Dimensions: 483 x 131 x 460mm

Applications
- Industrial applications: Electron Microscopes
700W ACDC Power Supply Unit

Description
This 700W rack mounted ACDC Power supply is designed for electron microscopes. The unit provides 4 stabilized outputs and has a voltage distribution PCB on the back.

Specifications
- Product name: PRA700
- Input voltage: 180…264Vac; 50/60Hz
- Output V1: +24V/10A
- Output V2: +15V/10A
- Output V3: -15V/10A
- Output V4: +5V/30A
- Ripple voltage on all outputs: < 1%pp
- Power factor: > 0.96
- Efficiency: 92%
- Safety: EN 60950, EN61010
- EMC: EN55011 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0…50°C
- Dimensions: 483 x 133 x 215mm

Applications
- Industrial applications: Electron Microscopes
60W DCDC converter with 7 outputs

Description
This 60W multiple outputs open frame DCDC converter is designed for industrial measuring equipment automotive.

Specifications
- Product name: PS12-2
- Input voltage: 10.8...36Vdc
- Output V1: +5.3V/4A
- Output V2, V3: +/-15.3V / 0.4A
- Output V4: +29V / 0.4A
- Output V5: +200V / 10mA
- Output V6: +15V / 1.4A
- Output V7: +15...25.2V / 0.5A (Li-ion battery charger)
- Ripple voltage on all outputs: < 1%pp
- I2C (battery) and RS232 interface
- Efficiency: 84%
- EMC: EN55011 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: -10...70°C
- Dimensions: 235 x 40.6 x 28 mm

Applications
- Industrial applications: Measurement in automotive
100W DCDC converter with 8 outputs

Description
This 100W multiple outputs DCDC converter is designed for industrial measuring equipment automotive.

Specifications
- Product name: PS12-3
- Input voltage: 10.8…42Vdc
- Output V1: +5.3V/6A
- Output V2, V3: +/-15.3V / 1.7A
- Output V4: +29V / 0.25A
- Output V5: +200V / 2mA
- Output V6: +15V / 1.4A
- Output V7, V8: +15…25.2V / 0.5A (Li-ion battery charger)
- Ripple voltage on all outputs: < 1%pp
- Efficiency: 85%
- I2C (battery) and RS232 interface
- EMC: EN55011 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: -20…70°C
- Dimensions: 226 x 46 x 39.2 mm

Applications
- Industrial applications
- Measurement in automotive
300W multi output power supply

Description
This multi output ACDC powersupply is designed for test and measuring equipment where low EM-noise and a high efficiency is important.

Specifications
- Product name: ANL04
- Nominal input voltage: 88...264Vac
- Output voltages:
  - +5V / 20A
  - +12V / 6A
  - -12V / 6A
  - +5.5V / 8.5A
- Efficiency at 230Vac: 88%
- Power factor: >0.95
- Dimensions: 425 x 60 x 112 mm
- EMC: according EN55011 class B
- Safety: EN60950, EN61010
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C

Applications
- Instrument powersupply for industrial applications in automotive
210W ACDC multiple output Power Supply

Description
This 210W multiple output open frame ACDC Power supply is designed for industrial measuring equipment.

Specifications
- Product name: PS420A
- Input voltage: 88...264Vac; 50/60Hz
- Output V1: +5.3V/12A
- Output V2: +15.3V/3.8A
- Output V3: -15.3V/3.8A
- Output V4: +29.5V/1.4A
- Output V5: +200V/0.01A
- Ripple voltage on all outputs: < 1%pp
- Power factor: > 0.96
- Efficiency: 89%
- Safety: EN 60950, EN61010
- EMC: EN55011 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0...65°C
- Dimensions: 203 x 131 x 40mm

Applications
- Industrial applications
1300W ACDC Power Supply Unit

Description
This ACDC Power supply is designed for industrial servo motor controller systems. The unit can handle peak powers of up to 3000W.

Specifications
- Product name: PSD1000
- Input voltage: 180...264Vac; 50/60Hz
- Output voltage V1: 153Vdc (1000W continuous)
- Current limit V1: 18A peak and 8A continuous
- Output voltage V2: 24Vdc / 13A
- Power factor: > 0.99
- Efficiency: 93%
- Safety: EN 60950
- EMC: EN55011 class B
- Protections: Over voltage, Overcurrent, Thermal
- Temperature range: 0...45°C
- Dimensions: 14TE x 6HE x 280mm

Applications
- Industrial applications: Servo motor controllers – pick and place machine
Medical 2000W ACDC Power Supply module

**Description**
This 2000W open frame ACDC Power supply is designed for medical applications. The unit provides 3 stabilized outputs and has a very high efficiency.

**Specifications**
- **Product name:** PSM2000
- **Input voltage:** 90…264Vac; 50/60Hz
- **Output V1:** +40V / 25A
- **Output V2:** -40V / 25A
- **Output V3:** +12V / 6A
- **Power factor:** > 0.99
- **Efficiency:** 93%
- **Safety:** EN60601-1 CF
- **Leakage current output:** < 10uA (NO); < 30uA (SF)
- **EMC:** EN60601-1-2 class B
- **Protections:** Over voltage, Overcurrent, Thermal
- **Temperature range:** 10…50°C
- **Dimensions:** 400 x 190 x 75 mm

**Applications**
- Medical equipment
300 / 400W ACDC external powersupply

Description
This 300W/400W ACDC powersupply is designed as an external adapter for medical applications.

Specifications
- Product name: PSA300, PSA400
- Nominal input voltage: 85…265Vac
- Output voltage: +24V / 13A – 17A
- Efficiency at 230Vac: 94%
- Isolated up to 3500Vac
- MTBF: 250000hrs (25gr.C)
- EMC: EN60601, EN55011 class B
- Safety: EN60601, EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…40°C
- Energy Star rated
- Dimensions: 250 x 130 x 48 mm

Applications
- Medical monitor
- General purpose adapter
280W open frame ACDC power supply

Description
This low cost ACDC power supply is designed for LED projection screens – LED driver

Specifications
- Product name: PSM280
- Input voltage range: 85..264Vac
- Output voltage: -12V / 24A
- Efficiency at 230Vac: 92%
- Inrush current: 30A
- Holdup time: > 20msec
- Input-output isolation: 3000Vac
- MTBF: >300000 Hrs
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…50°C; up to 70°C derating 2.5%/°C
- Dimensions: 164 x 120 x 46mm

Applications
- Industrial applications
100W ACDC power supply

Description
This low cost ACDC power supply is designed for professional LED projection screens – controller unit

Specifications
- Product name: PSM100
- Input voltage range: 85..264Vac
- Output voltage: +12V / 7.7A
- Efficiency at 230Vac: 87%
- Inrush current: 30A
- Holdup time: >10msec
- Input-output isolation: 3000Vac
- MTBF: >300000 Hrs
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C; up to 70°C derating 2.5%/°C
- Dimensions: 76 x 127 x 32mm

Applications
- Industrial applications
380W dual output ACDC power supply

Description
This dual output open frame ACDC power supply is designed for LED projection screens. PSU for LED driver and controller unit.

Specifications
- Product name: PSM380
- Input voltage range: 85..264Vac
- Output V1: -12V / 24A
- Output V2: +12V / 7.5A
- Efficiency at 230Vac: 90%
- Holdup time: >20msec
- Standby PS-ON function
- Input-output isolation: 3000Vac
- MTBF: >300000 Hrs
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temp. range: 0..50°C; up to 70°C derating 2.5%/°C
- Dimensions: 179 x 150 x 40mm

Applications
- Industrial applications e.g. Control room for telecommunication network
270W dual output ACDC power supply

Description
This dual output open frame ACDC power supply is designed for LED projection screens.
PSU for LED driver and controller unit

Specifications
- Product name: PSM280E
- Input voltage range: 85..264Vac
- Output V1: -3.7…-6.5V / 29A
- Output V2: +12V / 6.7A
- Programming voltage V1: 0…5V
- Efficiency at 230Vac: 87%
- Holdup time: > 20msec
- Input-output isolation: 3000Vac
- MTBF: >300000 Hrs
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…50°C; up to 70°C derating 2.5%/°C
- Dimensions: 154 x 130 x 46mm

Applications
- Industrial applications
- e.g. Control room for railway network
300W open frame ACDC power supply

Description
This low cost ACDC power supply is designed for telecom applications.

Specifications
- Product name: PSM300
- Input voltage range: 85..264Vac
- Output voltage: 12V / 24A
- Efficiency at 230Vac: 91%
- Inrush current: < 35A
- Holdup time: > 20msec
- Input-output isolation: 3000Vac
- MTBF: >200000 Hrs
- EMC: EN300386 class B, FCC47, ES201468
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -20...60°C; up to 70°C derating 2.5%/°C
- Dimensions: 40.5 x 310 x 97.3mm

Applications
- Industrial applications and telecom
720W ACDC Power supply for PA systems

Description
This 720W ACDC powersupply is designed for PA audio applications where high efficiency is required. The unit includes a battery backup input.

Specifications
- Product name: PSU-BAM
- Nominal input voltage: 90...265Vac
- Output voltages: +58V / 12A and +24V / 1A
- Efficiency 92%
- Battery Backup input voltage: 42...58Vdc
- Cooling: External airflow
- MTBF: 50000hrs (60gr.C)
- EMC: according EN55103
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...60°C
- Dimensions: 310 x 83 x 78 mm
- Fits in PA power amplifier housing

Applications
- Public Address systems in public buildings
416W open frame ACDC Power supply

**Description**
This 416W ACDC powersupply is designed for PA applications where high efficiency is required. The unit has 5 outputs with independent current limits.

**Specifications**
- **Productname**: PSU-CCU
- **Nominal input voltage**: 90…265Vac
- **Output voltages**:
  - 4 x 39V / 2.5A
  - 1 x 26V / 1A
- **Efficiency**: 92%
- **All outputs current limited and short protected**
- **Cooling**: External airflow > 0.5m/sec
- **EMC**: according EN55103
- **Protections**: Overcurrent, overvoltage, Temp.
- **Temperature range**: 0…60°C
- **Fits in equipment housing**
- **Dimensions**: 298 x 85 x 70 mm

**Applications**
- Network controllers in Public Address systems
150W open frame ACDC Power supply

Description
This ACDC powersupply is designed for PA applications where high efficiency is required. The unit has a battery backup input.

Specifications
- Product name: PSU-NCO
- Nominal input voltage: 90…264Vac
- Output: 48V / 3A continuous; 6A for 1 minute
- Efficiency > 91%
- Battery Backup input: 43…58Vdc
- Cooling: free air convection
- EMC: according EN55103, EN55011 class B
- Safety: EN60065, EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…60°C
- Fits in equipment housing
- Dimensions: 423 x 96 x 70 mm

Applications
- Network controllers in Public Address systems
150W open frame ACDC power supply

Description
This 150W low cost ACDC power supply is designed for network controllers in security systems.

Specifications
- Product name: PSU41
- Input voltage range: 110 / 230Vac; 50/60Hz
- Output voltage: +39V / 3.75A; 7.5A for 1 sec.
- Efficiency at 230Vac: 89%
- Inrush current: 30A
- Input-output isolation: 3000Vac
- MTBF: > 400000 Hrs
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...55°C; up to 75°C derating 2.5%/°C
- Dimensions: 69 x 186 x 60mm

Applications
- Industrial applications
740W ACDC Power supply for PA systems

Description
This 740W ACDC powersupply is designed for PA audio applications where high efficiency is required. The unit includes a battery backup input.

Specifications
- Product name: PSU5
- Nominal input voltage: 90...265Vac
- Power Factor: > 0.98
- Output voltages:
  +58V / 12A
  +/-12V / 1.3A
  +24V / 0.5A
- Efficiency > 90%
- Battery Backup input voltage: 42...58Vdc
- EMC: according EN55103, EN55011 class B
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...60°C
- Fits in PA power amplifier housing
- Dimensions: 315 x 79.3 x 72 mm

Applications
- Public Address systems
400W ACDC Power supply for PA systems

Description
This ACDC powersupply is designed for PA audio applications where high efficiency is required. It includes a battery backup input.

Specifications
- Product name: PZT400
- AC mains input voltage: 90...265Vac
- Battery Backup input voltage: 20...60Vdc
- Output voltage: +50V / 8A, 12A for 5 seconds
- Efficiency of 94%
- MTBF: 200000hrs
- EMC: EN55103, EN55011, EN60945, EN50130, EN 50121-3-2
- Safety: EN60065, EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -15...55°C
- Dimensions: 310 x 110 x 80
- Fits in PA power amplifier housing

Applications
- Public Address systems
220W 12V DCDC converter

Description
This DCDC converter is designed for optical fiber network controller equipment where low EM-noise and a high efficiency is important.

Specifications
- Product name: DSU175
- Input voltage range: 18...60Vdc
- Output voltage: +12V / 18.3A
- Efficiency at 48Vdc: 92%
- Inrush current: 20A
- Input polarity protection
- Redundancy and active current sharing
- Hot swappable
- Input-output isolation: 1500Vac
- Dimensions: 120 x 170 x 40.6mm
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C; up to 70°C derating 2W/°C

Applications
- Instrument powersupply for industrial applications
220W 12V ACDC power supply

Description
This ACDC power supply is designed for optical fiber network controller equipment where low EM-noise and a high efficiency is important.

Specifications
- Product name: PSU175
- Input voltage range: 90..264Vac
- Output voltage: +12V / 18.3A
- Efficiency at 230Vac: 92%
- Inrush current: 20A
- Holdup time: > 20msec
- Redundancy and active current sharing
- Input-output isolation: 3000Vac
- Dimensions: 120 x 170 x 40.6mm
- Input connector: IEC320-C14
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C; up to 70°C derating 2W/°C

Applications
- Instrument powersupply for industrial applications
5000W 100V/125V DCDC converter

Description
This non-isolated DCDC converter is designed for UPS systems to create a stabilized and redundant system.

Specifications
- Product name: PSX110V46A
- Input voltage range: 99...160Vdc
- Product name: PSX125V40A
- Input voltage range: 108...175Vdc
- Output voltage: +125V / 40A
- Efficiency: 99%
- Current sharing up to 20 units and redundant operation
- Inrush current: < 40A
- Input polarity protection
- Input and output electronic overload protection
- Dimensions: 41 x 230 x 280 mm
- EMC: EN55011 class A
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C; up to 70°C derating 2W/°C

Applications
- Industrial applications
2400W 24/48V DCDC converter

Description
This non-isolated DCDC converter is designed for UPS systems to create a stabilized and redundant system.

Specifications
- Product name: PSX(24V)48V50A
- Input voltage range: 43...65Vdc
- Output voltage: 24V/100A and 48V/50A
- Efficiency: 98%
- Current sharing up to 20 units and redundant operation
- Inrush current: < 50A
- Input polarity protection
- Input and output electronic overload protection
- Dimensions: 41 x 230 x 280 mm
- EMC: EN55011 class A
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0...50°C; up to 70°C derating 2W/°C

Applications
- Industrial applications: Customized UPS System
15W DC-input UV ballast converter

**Description**
This DC-input 15W UV ballast converter is designed for water purification applications.

**Specifications**
- Product name: PUV15
- Input voltage range: 24..28Vdc
- Output voltage: 0…25Vrms
- Output current: 0…0.6Arms
- Operating frequency: 60kHz…100kHz
- Ignition voltage: 150…250V
- Preheat time: 1 sec
- Efficiency of 90%
- EMC: EN55011 class A
- Safety: EN60950
- Protections: Overcurrent, Temp.
- Temperature range: 0…50°C
- Dimensions: 30 x 78 x 17mm

**Applications**
- Industrial applications
80W UV ballast converter

**Description**
This 80W UV ballast converter is designed for water purification applications.

**Specifications**
- **Product name:** PUV80
- **Input voltage range:** 180..264Vac
- **Output voltage:** 0…80Vrms
- **Output current:** 0…1Arms
- **Output voltage and current are adjusted to the lamp type**
- **Operating frequency:** 40kHz…120kHz
- **Ignition voltage:** 5…7x Inom
- **Preheat time:** 3 sec
- **Input-output isolation:** 3000Vac
- **EMC:** EN55011 class B
- **Safety:** EN60950
- **Protection:** Overcurrent, overvoltage, Temp.
- **Temperature range:** 0…50°C; up to 70°C derating 2.5%/°C
- **Dimensions:** 130 x 216 x 40mm

**Applications**
- **Industrial applications**
300W UV ballast converter

Description
This 300W UV ballast converter is designed for water purification applications.

Specifications
- Product name: PUV300
- Input voltage range: 180..264Vac
- Output voltage: 0…160Vrms
- Output current: 0…2Arms
- Output voltage and current are adjusted to the lamp type
- Operating frequency: 40kHz…120kHz
- Ignition voltage: 5…7x Inom
- Preheat time: 3 sec
- Input-output isolation: 3000Vac
- EMC: EN55011 class B
- Safety: EN60950
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: 0…50°C; up to 70°C derating 2.5%/°C
- Dimensions: 130 x 216 x 60mm

Applications
- Industrial applications
Inverter 3 phase 750VA

**Description**
This Inverter converts a 28Vdc to 115Vac 3-phase at 400Hz. It can handle a variety of loads like capacitive, inductive and peak-rectifiers. It can also be configured as a single phase 230Vac source.

**Specifications**
- Product name: SMS038-R3
- Nominal input voltage: 24-29Vdc
- Input voltage transient levels: 11-60V
- Output voltage: 115Vac-3ph / 60 or 400Hz
- Output Power: 3 x 250VA
- Input-output isolation: 3kVac
- Efficiency > 90%
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -40...70°C
- Dimensions: 344 x 215 x 160 mm

**Applications**
- Frequency Inverter for Aircraft
- For Military applications
DC Servo Amplifier for 230V/90A

Description
This high power DC servo amplifier is designed for controlling military tracking radar systems. The unit is DSP controlled and has several protection functions.

Specifications
- Product name: STIR DCA
- Input voltage: 230Vdc
- Output current: +/- 90A for max. 10 sec.; 40Arms
- Output voltage: -230V...+230V
- Bandwidth: 0...300Hz
- Input signal: -7.5...+7.5V
- Current gain: 12A/V
- Protections: Overcurrent, Thermal, I^2t
- Temperature range: 0...55°C
- Weight: < 19kg
- Dimensions: 400 x 141 x 200 mm

Applications
- Military radar system
65W ACDC or DCDC powersupply

Description
This 65W Power supply is designed for landbased military portable radar systems.

Specifications
- Product name: MPS65
- Input voltage: 90...264Vac or 150...350Vdc
- Output voltage: 26Vdc / 2.5A
- Efficiency: 85%
- Safety: EN 60950, MIL-STD-454M
- EMC: MIL-STD-461D; EN55011
- Protections: Overvoltage, Overcurrent, Thermal
- Temperature range: -40...55°C
- Weight: < 2.7kg
- MTBF: > 300000 hrs (GF)
- Protection class: IP67
- Dimensions: 210 x 176 x 93 mm

Applications
- Military: Portable radar System
150W DCDC powersupply

Description
This 150W DCDC Power supply is designed for landbased military portable radar systems.

Specifications
- Product name: VPS150
- Input voltage: 20…33Vdc
- Output voltage: 180Vdc / 0.92A
- Efficiency: 89%
- Safety: EN 60950, MIL-STD-454M
- EMC: MIL-STD-461D; EN55011
- Protections: Overvoltage, Overcurrent, Thermal
- Temperature range: -40…55°C
- Weight: < 2.7kg
- MTBF: > 250000 hrs (GF)
- Protection class: IP67
- Dimensions: 210 x 176 x 93 mm

Applications
- Military: Portable radar System
1000W ACDC powersuply

Description
This 1000W ACDC Power supply is designed for landbased military portable radar systems.

Specifications
- Product name: MPS1000
- Input voltage: 90...264Vac; 50/60Hz
- Power factor: > 0.95
- Output voltages: 4 independent outputs of 28Vdc
- Efficiency: > 80%
- Safety: EN 60950, MIL-STD-454M
- EMC: MIL-STD-461E; EN55011
- Protections: Overvoltage, Overcurrent, Thermal
- Temperature range: -30...55°C
- Weight: < 10kg
- MTBF: > 100000 hrs (GF)
- Protection class: IP67
- Dimensions: 400 x 141 x 200 mm

Applications
- Military: Portable radar System
150W low noise ACDC Power supply

Description
This 150W rackmounted multiple output ACDC powersupply is designed for military applications.

Specifications
- Product name: ACDC150
- Nominal input voltage: 90...264Vac
- Output voltages:
  - +/- 15V / 3.5A
  - +3.3V / 12A
  - +5.0V / 1A
- Efficiency: 81%
- MTBF: 100000hrs (45gr.C)
- EMC to MIL461D, EN61000-6-4, EN61000-6-2
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -30...55°C
- Size 6HE, 8TE; for VME-rack

Applications
- Military: Radar transmitters and receivers
300W low noise ACDC Power supply

Description
This 300W rackmounted ACDC powersupply is designed for military applications where ultra low noise is required.

Specifications
- Product name: ACDC180
- Nominal input voltage: 90...264Vac
- Output voltages:
  - 5.5...8V / 15A; ripple 500uVrms
  - 5.5...8V / 15A; ripple 500uVrms
  - 5.0...8V / 9A; ripple 500uVrms
  - 5.0V / 2A; ripple 500uVrms
  - 3.4V / 2A; ripple 500uVrms
- Efficiency > 82%
- MTBF 180000hrs (45gr.C)
- EMC to MIL461E, EN61000-6-4, EN61000-6-2
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -40...55°C
- Size 6HE, 10TE; for VME-rack

Applications
- Military: Radar transmitters and receivers
300W low noise ACDC Power supply

Description
This 300W rackmounted ACDC powersupply is designed for military applications where ultra low noise is required.

Specifications
- Product name: ACDC300
- Nominal input voltage: 90...264Vac
- Output voltages:
  - +3.3V / 25A; ripple 500uVrms
  - +5V / 15A ; ripple 1mVrms
  - +15V / 5A ; ripple 500uVrms
  - -15V / 2A ; ripple 1mVrms
  - +5V / 5A ; ripple 300uVrms
- Efficiency > 80%
- MTBF 160000hrs (45gr.C)
- EMC to MIL461E, EN61000-6-4, EN61000-6-2
- Protections: Overcurrent, overvoltage, Temp.
- Temperature range: -40...55°C
- Size 6HE, 10TE; for VME-rack

Applications
- Military: Radar transmitters and receivers
Thank you for your attention!

Also have a look at the PBF Website
http://www.pbfpower.com