CONVECTION RATING

The amount of power that is available from a product without relying on forced air or conduction cooling. It simply relies on the natural movement of heated air. Using only convection cooling minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.



POWER DENSITY

The amount of power per unit volume, expressed as Watts-per-cubic-inch (w/in³). Power density is an important consideration where space is constrained, and the maximum amount of power is desired.

RELIABILITY & EASE OF INTEGRATION

Reliability is the degree to which a specification can be depended on to be accurate. This can relate to a products ability to consistently operate as specified.

Ease of Integration is related to the minimal amount of additional effort required to successfully integrate a power supply into the end equipment in which it is to operate.

WWW.DOESYOURPOWERSUPPLYMEASUREUP.COM

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CINT1175

BENEFITS

- 175W Air Cooled, 120W Convection Cooled
- Compact 2"x4" foot print for 1U Applications
- 90% Efficiency Typical at Full Load
- < 200 µA Leakage Current
- 3 Year Warranty



FEATURES

Remote Inhibit, AC Power Fail & DC OK signals
 Approved to IEC60601-1 3rd Edition

MARKETS

Test & Measureme

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PLATFORMS

TEST & MEASUREMENTS

Precision Manufacturing

Architectural Infrastructures

Analytical Test

INDUSTRIAL

ITE & COMMS

AUTOMATION

Factory Automation

Datacom

LED

APPLICATIONS

TEST & MEASUREMENTS

Network Analyzers
Signal Generators

INDUSTRIAL

- HVAC Controls
- Label PrintersLaser Cutting
- Laser Guttir

LED

Outdoor LightingBoard Signage

ITE & COMMS

MultiplexersHigh End Routers

AUTOMATION

Robotics

Conveyor Systems

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- Meeting Class B EMI Levels with margin ensures less effort by the system designer to integrate a power supply into the end equipment.
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



CINT1200

BENEFITS

- 200W Air Cooled, 180W Convection Cooled
- Compact 3"x5" foot print for 1U Applications
- Over 90% typical efficiency
- High convection power under harsh thermal conditions
- Operates at temperatures as low as -40°C to +70°C

FEATURES

- Over current, over temperature, and short circuit protection
- 5EN/CSA/UL/IEC 60950-1 2nd Edition

MARKETS

PLATFORMS

Analytical Test

INDUSTRIAL

LED

TEST & MEASUREMENTS

Precision Manufacturing

Architectural Infrastructures

















ITE & COMMS • Datacom

TOMATION

• Factory Automation

TEST & MEASUREMENTS

APPLICATIONS

Network AnalyzersSignal Generators

INDUSTRIAL

- HVAC Controls
- Label Printers
- Laser Cutting

LED

Outdoor LightingBoard Signage

ITE & COMMS

MultiplexersHigh End Routers

AUTOMATION

Robotics

Conveyor Systems

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- Highest forced air and convection ratings in the industry.
- Available with Class I and Class II input versions.
- Ideal for applications in harsh temperature conditions. Operates between -40°C to +70°C
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



CINT1275



BENEFITS

- 275W Air Cooled, 180W Convection Cooled
- Compact 3"x5" foot print for 1U Applications
- Over 90% typical efficiency
- Highest convection power under harsh thermal
- Operates at temperatures as low as -40°C to +70°C

FEATURES

- Over current, over temperature, and short circuit protection
- 5EN/CSA/UL/IEC 60950-1 2nd Edition

MARKETS

PLATFORMS

Analytical Test

INDUSTRIAL

TEST & MEASUREMENTS

Precision Manufacturing

Architectural Infrastructures











2



LED

AUTOMATION Factory Automation

APPLICATIONS

TEST & MEASUREMENTS

 Network Analyzers Signal Generators

INDUSTRIAL

- HVAC Controls
- Label Printers
- Laser Cutting

LED

 Outdoor Lighting Board Signage

ITE & COMMS

 Multiplexers • High End Routers

AUTOMATION

- Robotics
- Conveyor Systems

- Highest forced air and convection ratings in the industry.
- Available with Class I and Class II input versions.
- · Ideal for applications in harsh temperature conditions. Operates between -40°C to +70°C
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



GB60



BENEFITS

- 60W Convection Cooled
- Power density is more than 25% higher than other 2"X3" products
- Wide temperature range of -10°C to +80°C
- Level V Efficiency Compliant Models
- 6.67 Watts/IN³ power density @70°C
- Does not require a heating element to turn on at -40°C

FEATURES

- Optional Power ON LED
- RoHS Compliant
- Approved to CSA/EN/IEC/UL60950-1, 2nd Edition

VALUE PROPOSITION

- The smallest convection cooled 60W power supply in its class.
- Reliably delivers 40W at 70°C without the need for a fan. Reducing total application cost.
- Does not require a heating element at -40°C saving \$2 to \$10 per unit and improving end application efficiency.
- · High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.

MARKETS **PLATFORMS**

TEST & MEASUREMENTS

APPLICATIONS

TEST & MEASUREMENTS

- Network Analyzers
- Chemistry Analyzers

LED

- Theater Lighting
- Low Voltage LED Lighting

AUTOMATION

- Factory Automation
- Process Control

ITE & COMMS

- Multiplexers
- High End Routers



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ITE & Comm

 Electronic Test Analytical Test









AUTOMATION Robotics Instrumentation

LED

Lighting



LB115



BENEFITS

- 75W Convection Cooled/115W with 200 LEM
- Small size of 2" x 4" x 1.3"
- Level V Efficiency Compliant
- -20°C to 70°C operating temperature
- Zero audible noise
- No need for EMI filter: Cost and space reduction.
- High convection and conduction rating

FEATURES

- Meets EN55015 Conducted EMI
- Meets IEC61000-3-2 Class C for less than 1 Watt to full power
- Approved to UL/CSA/IEC/EN60950-1, 2nd Edition
- Optional LED indicator for power-on

VALUE PROPOSITION

- A new LED power supply family intended for low power applications in stage lighting & signage markets.
- Design to meet European Lighting requirements of harmonic distortion at 0% dimming.
- With international safety approvals, it provides a seamless integration in marketing the end user fixtures across the alobe.
- Delivers considerable power at elevated temperatures over 50°C.
- First SL Power product to use Combined PWM & PFC combo chip reducing component count and higher reliability.

MARKETS

PLATFORMS

APPLICATIONS











TEST & MEASUREMENTS

Analytical Test

INDUSTRIAL Precision Manufacturing

LED LED Lighting Architectural Infrastructures

ITE & COMMS

Datacom

AUTOMATION • Factory Automation

TEST & MEASUREMENTS

 Network Analyzers Signal Generators

INDUSTRIAL

- HVAC Controls
- Label Printers
- Laser Cutting

LED

- Theater Lighting Stage Lighting
- Signage

ITE & COMMS

 Multiplexers High End Routers

AUTOMATION

 Robotics Conveyor Systems

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TB65S

BENEFITS

- 65W of power in a compact 2" x 3.5" package
- Enhanced EMI performance ensures easy integration into end equipment
- Will ride-through unstable mains power fluctuations, ensuring continuous operation



FEATURES

- Class B EMI with margin
- >10 year e-cap life
- PSU Temperature Monitor
- Remote Inhibit, Status Signals

VALUE PROPOSITION

- Meeting Class B EMI Levels with margin ensures less effort by the system designer to integrate a power supply into the end equipment.
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.

MARKETS **PLATFORMS**

Test & Measurem



Industrial



Automation



TEST & MEASUREMENTS

- Electronic Test
- Analytical Test
 Automatic Test Equipment
 Communications Test
- Automotive Test

INDUSTRIAL

- Process Control
- Factory Automation
- Refrigeration Controls

AUTOMATION

Process Control

- Factory Automation Refrigeration Controls

ITE & COMMS

Datacom

Telecom

Point of Sale

APPLICATIONS

TEST & MEASUREMENTS

- OscilloscopesProtocol Analyzers
- Power Meters
- SpectrometryChromatography

INDUSTRIAL

- Conveyor Systems
- HVAC Controls

AUTOMATION

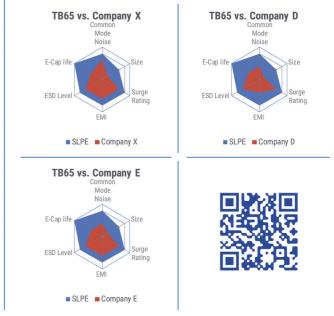
- Robotics Conveyor Systems
- HVAC Controls

- ATM

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COMPETITIVE POSITIONING

A bigger surface area means better performance and lower operating cost



- Robotics

ITE & COMMS

- Kiosks

Gaming

Label Printers Laser Cutting

Rheometers

Hardness Testers

In-circuit Board Testers

Gas Analyzers

Label Printers

Laser Cutting

Printers

Sorting Machines

TB110S



BENEFITS

- 110W of power in a compact 2" x 4" package
- Enhanced EMI performance ensures easy integration into end equipment
- Will ride-through unstable mains power fluctuations, ensuring continuous operation

FEATURES

- Class B EMI with margin
- >15 year e-cap life
- 5V @ 1A Standby Output
- Remote Inhibit, Status Signals

VALUE PROPOSITION

- Meeting Class B EMI Levels with margin ensures less effort by the system designer to integrate a power supply into the end equipment.
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
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MARKETS **PLATFORMS**

Test & Measuremen



Industrial



Automatio



TEST & MEASUREMENTS

- Electronic Test
- Analytical Test
 Automatic Test Equipment
- Communications Test
- Automotive Test

INDUSTRIAL

- Process Control
- Factory Automation
- Refrigeration controls

AUTOMATION

- Process Control
- Factory Automation Refrigeration controls

ITE & COMMS

- Datacom • Point of Sale
- Telecom

APPLICATIONS

TEST & MEASUREMENTS

- Oscilloscopes
- Protocol Analyzers Power Meters
- Spectrometry
- Chromatography

INDUSTRIAL

- Robotics
- Conveyor Systems HVAC Controls

AUTOMATION

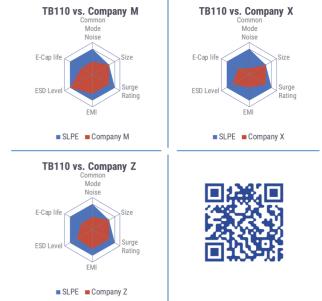
- Robotics
- Conveyor Systems
- HVAC Controls

ITE & COMMS

- Kiosks • ATM
- Gaming

COMPETITIVE POSITIONING

A bigger surface area means better performance and lower operating cost



- Rheometers Hardness Testers
 - Gas Analyzers In-circuit Board Testers
 - Label Printers
 - Laser Cutting

- Label Printers Laser Cutting
- - Printers

Sorting Machines

TU425S



BENEFITS

- 425W of power in a compact 3.3" x 6" package.
- Enhanced EMI performance ensures easy integration into end equipment.
- Will ride-through unstable mains power fluctuations, ensuring continuous operation.

FEATURES

- Class B EMI with margin
- >7 year e-cap life
- 5V @ 2A Standby Output
- Current Share, Remote Inhibit, Status Signals

VALUE PROPOSITION

- Meeting Class B EMI Levels with margin ensures less effort by the system designer to integrate a power supply into the end equipment.
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
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MARKETS **PLATFORMS**

Test & Measureme



Industrial



Automation



TEST & MEASUREMENTS

- Electronic Test
- Analytical Test
- Communications Test
- Automotive Test

- Process Control

- Process Control
- Factory Automation



- Datacom Point of Sale
- Telecom

- Automatic Test Equipment

INDUSTRIAL

- Factory Automation
- Refrigération Controls

AUTOMATION

- Refrigération Controls

APPLICATIONS

TEST & MEASUREMENTS

- Oscilloscopes
- Protocol Analyzers
 Power Meters
- Spectrometry
- Chromatography

INDUSTRIAL

- Robotics Conveyor Systems
- HVAC Controls

AUTOMATION

- Robotics
- Conveyor Systems HVAC Controls

ITE & COMMS

- Kiosks
- ATM
- Gaming

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TU425 vs. Company M Convection

- Rheometers
- Hardness Testers Gas Analyzers
- In-circuit Board Testers

Label Printers

Laser Cutting

Label Printers

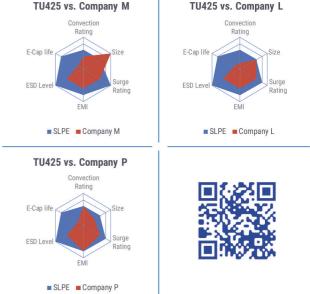
- Laser Cutting

Printers

- Sorting Machines

COMPETITIVE POSITIONING

A bigger surface area means better performance and lower operating cost



MINT1175

BENEFITS

- 175W Air Cooled, 120W Convection Cooled
- Compact 2"x4" foot print for 1U Applications
- 90% Efficiency Typical at Full Load
- < 200 µA Leakage Current
- 3 Year Warranty

FEATURES

• Remote Inhibit, AC Power Fail & DC OK signals • Approved to IEC60601-1 3rd Edition

MARKETS

APPLICATIONS



MEDICAL

- Medical Lighting
- Operating Equipment

PLATFORMS

- Lab Equipment
- Dental Equipment
- Hospital Equipment
- Clinical Chemistry Instruments
- Microbiology Instruments
- Drug Administration
- Hematology Instruments
- ICU Factory Automation
- Patient Monitoring

MEDICAL

- LED Lighting for Heat Therapy
- Chemical Therapy Analyzer
- Sterilizers
- Mass Analyzers
- Dialysis Equipment
- Infusion Pump
- Cauterizer Device
- ICU Monitor Systems
- Pulse Oximeter
- Surgical Equipment
- Imaging

- Meeting Class B EMI Levels with margin ensures less effort by the system designer to integrate a power supply into the end equipment.
- Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- High convection rating minimizes the need to rely on forced air, thereby increasing reliability and minimizing system cost by eliminating the need for a fan.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



MINT1275



BENEFITS

- 275W Air Cooled, 180W Convection Cooled
- Compact 3"x5" foot print for 1U Applications
- Over 90% typical efficiency
- High convection power under harsh thermal conditions
- Operates at temperatures as low as -40°C to +70°C

FEATURES

- Over current, over temperature, and short circuit protection
- 5EN/CSA/UL/IEC 60950-1 2nd Edition

PLATFORMS MARKETS

APPLICATIONS

- MEDICAL Medical Lighting
- Operating Equipment
- Lab Equipment
- Dental Equipment
- Hospital Equipment
- Clinical Chemistry Instruments
- Microbiology Instruments
- Drug Administration
- Hematology Instruments
- ICU Factory Automation
- Patient Monitoring

MEDICAL

- LED Lighting for Heat Therapy
- Chemical Therapy Analyzer
- Sterilizers
- Mass Analyzers
- Dialysis Equipment
- Infusion Pump
- Cauterizer Device
- ICU Monitor Systems
- Pulse Oximeter
- Surgical Equipment
- Imaging

- Highest forced air and convection ratings in the industry.
- Available with Class I and Class II input versions.
- · Ideal for applications in harsh temperature conditions. Operates between -40°C to +70°C
- · Built-in protections against unstable operational environments minimize the need for implementing at the system level, resulting in shorter development time and reduced cost.
- · Use of high quality electrolytic capacitors well below their threshold and ESR ratings help extend the life of the end equipment, and minimize field service needs.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



MB60



BENEFITS

- 60W Convection Cooled
- Power density is more than 25% higher than other 2"X3" products
- Wide temperature range of -10°C to +80°C
- Level V Efficiency Compliant Models
- 6.67 Watts/IN³ power density @70°C
- Does not require a heating element to turn on at -40°C

FEATURES

- Optional Power ON LED
- RoHS Compliant
- Approved to medical standards of IEC60601-1 3rd Edition with 2 MOPP

MARKETS **PLATFORMS**

APPLICATIONS



MEDICAL

- Medical Lighting
- Operating Equipment
- Lab Equipment
- Dental Equipment
- Hospital Equipment
- Clinical Chemistry Instruments
- Microbiology Instruments
- Drug Administration
- Hematology Instruments
- ICU Factory Automation
- Patient Monitoring

MEDICAL

- LED lighting for heat therapy
- Chemical Therapy Analyzer
- Sterilizers
- Mass Analyzers
- Dialysis Equipment
- Cauterizer Device
- ICU Monitor Systems
- Pulse Oximeter
- Surgical Equipment Imaging

VALUE PROPOSITION

- To get 40W at 70°C, most system requiere an 80W power supply in a bigger size and higher cost.
- Possible reduction in size by 25% for end-application. A great marketing advantage over competition.
- Requiring a heating element can be costly and requires wasted space. Using the MB60, the end-application can save money and space.
- On the other extreme tempetature range, it is the -40°C start up feature of the MB60 than can save \$2 to \$10 in reduction of a heating element. This is not just a cost savings, it is also an overall increase of efficiency for end-application.
- One of the most significant advantage of MB60 is that it can delivery 40W power at 70°C.
- SL Power local technical support capabilities provide real time help in solving potential design problems which could otherwise cause revenue loss due to delays in end product introduction.
- Extensive global presence can support customers product needs as they migrate from development to production, frequently in multiple locations around the world.



Infusion Pump

MB120

BENEFITS

- 100W Convection Cooled and 120W Air Cooled
- 2" x 4" x 1.25" Package, Ideal for 1U Applications
- 10-year Life design with Premium E-Caps
- Class B Conducted and Radiated EMI performance
 PE lagletian Type Dated
- BF Isolation Type Rated

FEATURES

- Designed to meet new IEC 60601-1-2 4th Edition EMC requirements
- [Approvable] to AAMI ES/CSA C22.2 /EN/IEC60601-1 3rd Edition
- 2 x MOPP Isolation
- <0.5 W Standby Power</p>
- 3 Year Warranty

VALUE PROPOSITION

- A superior performance 120 Watt AC to DC power supply designed for next generation medical applications.
- Feature rich and highly efficient, MB120 product family can easily fit in a 1U chassis and provides 100 Watts of convection power.
- Input & output and internal temperature monitoring/alarms are features of the MB120 family.
- All models are CE marked to low voltage directive and approved to AAMI ES/CSA C22.2 No./EN/IEC60601-1, 3rd Edition.
- The design takes into consideration the pending international release of the new IEC 60601-1-2, 4th Edition EMC requirements. With low leakage current performance, the power supplies are BF rated.

MARKETS PLATFORMS

APPLICATIONS



MEDICAL

- Medical Lighting
- Operating Equipment
- Lab Equipment
- Dental Equipment
- Hospital Equipment
- Clinical Chemistry Instruments
- Microbiology Instruments
- Drug Administration
- Hematology Instruments
- ICU Factory Automation
- Patient Monitoring

MEDICAL

- LED Lighting for Heat Therapy
- Chemical Therapy Analyzer
- Sterilizers
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- Pulse Oximeter
- Surgical Equipment
- Imaging



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