The heart of your application

At TDK-Lambda, a “Power Supply” is more than just an electronic device. It is the “heart” of our customers’ systems and the core element of safety and reliability.

Since 1948 as a leading global manufacturer we have been developing and producing innovative and highly reliable power supplies for a wide spectrum of applications. In addition, with our unique range of activities from research and development through to manufacturing, sales and service, our customers appreciate our experience, know-how and our passion for always wishing to find the best solution for our customers.

This short brochure will provide you with an overview of our power supplies and service and shows why leading manufacturers and OEM clients for industrial and medical applications rely on TDK-Lambda solutions.

www.emea.lambda.tdk.com
The heart of your application
TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies worldwide. Our comprehensive range of 1.5W to 100kW AC-DC power supplies, DC-DC converters, Programmable (Lab) DC power supplies and EMC/EMI noise filters suit many applications. With design and manufacturing facilities in EMEA, Asia and America, TDK-Lambda is a major supplier of power conversion products and recognized leader in the industrial market segment.

**TDK-Lambda offers customers a unique proposition for power supply solutions.**
We offer you innovative reliable power supplies combined with design-in assistance, global logistics expertise and total life cycle support.

**TDK-Lambda Quality**
Quality can never be assured entirely by final inspection. Quality at TDK-Lambda means a continuous process beginning at the development of a power supply. Extensive R&D activities, field proven topologies, components and validation and test methodologies coupled with the extraordinary process reliability and high production quality leads to TDK-Lambda Quality.

**Strong global organization**
As a member of TDK Group we are a global player based in five key areas covering Japan, EMEA, North America, China and SE Asia. All over the world we are confident of being a trusted partner and offer you innovative and reliable power products combined with dependable service.

**Excellent sales and technical support**
We support you with everything from design-in assistance, EMC standards and safety certification through to mass production and long term back up. We offer responsive local sales and service support backed up by important Advanced Technology Research, new product development and manufacturing centres.

**Highly experienced global logistics capability**
Uniquely we can provide the optimum manufacturing strategy for your needs in our own fully equipped plants from low volume to high volume manufacturing.
Similarly we have multiple strategically located warehouses, offering a full menu of logistic services including tailor-made solutions.

Leaders in the development of advanced technologies
Our position as a highly experienced, leading global supplier means we can capitalise on our extensive Advanced Technology Research and over 700 patents to provide the next generation of innovative, leading edge power solutions. Highly motivated R&D teams, located in design facilities worldwide have knowledge of the key attributes of many different applications gained from many years experience.

Lowest cost of ownership
Our key focus is not only ensuring the long term reliability of our products but also being reliable in all aspects of our business delivering high quality products and services. As well as satisfying your technical requirements we will always offer you the best all round solution taking into account cost, time to market and reliability.

Choose TDK-Lambda for excellent service and all your power needs.
Here we would like to present an overview of our latest power supply solutions designed for a wide spectrum of industrial and medical applications. We offer innovative and reliable AC-DC power supplies, DC-DC converters, programmable power supplies and EMI/EMC Filters.

Like all TDK-Lambda power supplies these models meet the highest criteria for quality and reliability. We support this by offering industry leading warranty.

Please see our complete product lineup at the end of the brochure.

### MU4 Series

**Configurable AC-DC power supplies**

- 36dBA** extremely low audible noise - Intelligent Fan Control (IFC)
- Safety Certifications IEC/EN/UL60601-1, 62368-1, 60950-1
- Full MOPP, Input & Output to Earth and Primary to Secondary
- Suitable for B and BF rated equipment
- Output flexibility continuous output voltage 3.3 – 104Vdc
- PMBus™ communication option with individual output control and diagnostics
- 1U height

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Number of outputs*</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
<th>Standby supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU4</td>
<td>600 – 800W</td>
<td>1 – 5</td>
<td>3.3 – 104Vdc</td>
<td>85 – 264 Vac</td>
<td>7 years</td>
<td>☀️</td>
<td>☀️</td>
</tr>
</tbody>
</table>

*Including auxiliary outputs  
** Configuration dependent, nominal conditions of 25°C, 115Vac/240Vac and 80% unit power

### XMS500 Series

**Configurable AC-DC power supplies**

- Flexible with many case and signal options
- Suitable for 1U profile
- Low airflow requirement
- BF ready medical isolation (MOPP)
- Protection Class I or II options
- EN55011/22 Class B (conducted and radiated)

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Number of outputs</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
<th>Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>XMS500</td>
<td>500W</td>
<td>1</td>
<td>12, 24, 36,48Vdc</td>
<td>90 – 264Vac</td>
<td>5 years</td>
<td>☀️</td>
<td>☀️</td>
</tr>
<tr>
<td>XMS500A</td>
<td>500W</td>
<td>1</td>
<td>12, 24, 36,48Vdc</td>
<td>85 – 264Vac</td>
<td>5 years</td>
<td>☀️</td>
<td>☀️</td>
</tr>
</tbody>
</table>
### QM Series
Configurable AC-DC power supplies

- Flexible with many output combinations
- Low speed, low audible noise fan
- BF ready medical isolation (MOPP)
- PMBus™ communication option

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Number of outputs*</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
<th>Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM4</td>
<td>550 – 650W</td>
<td>1 – 10</td>
<td>2.8 – 105.6Vdc</td>
<td>90 – 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QM5 / QM5H</td>
<td>700 – 1200W</td>
<td>1 – 12</td>
<td>2.8 – 105.6Vdc</td>
<td>90 – 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QM7</td>
<td>1200 – 1500W</td>
<td>1 – 16</td>
<td>2.8 – 105.6Vdc</td>
<td>90 - 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QM8</td>
<td>1200 – 1500W</td>
<td>1 – 18</td>
<td>2.8 – 105.6Vdc</td>
<td>90 - 264Vac</td>
<td>7 years</td>
<td></td>
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</tr>
<tr>
<td>QM8B</td>
<td>1200 – 2000W</td>
<td>1 – 18</td>
<td>2.8 – 105.6Vdc</td>
<td>90 - 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Including auxiliary outputs

### QS Series
Single output AC-DC power supplies

- BF ready medical isolation (MOPP)
- Low speed, low audible noise fan
- Dual or single fusing
- PMBus™ communication option

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Number of outputs*</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
<th>Medical</th>
</tr>
</thead>
<tbody>
<tr>
<td>QS4</td>
<td>600W</td>
<td>3</td>
<td>12, 24, 48Vdc</td>
<td>90 – 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QS5</td>
<td>600W</td>
<td>3</td>
<td>24, 48Vdc</td>
<td>90 – 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QS5H / QS7</td>
<td>1080 – 1200W</td>
<td>3</td>
<td>12, 24, 48Vdc</td>
<td>90 – 264Vac</td>
<td>7 years</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Including auxiliary outputs
TPS Series
3-Phase Input AC-DC power supplies

- 400/440/480 Vac (Nominal) 3 Phase Delta or Wye
- Fully regulated, wide range adjustable output
- Remote programming of voltage and current
- –40°C (start up) to +70°C operation temperature
- Built in ORing FET for parallel operation
- PMBus™ communication

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS3000</td>
<td>3000 – 3200W</td>
<td>24, 48Vdc</td>
<td>350 – 528Vac</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>TPS4000</td>
<td>4000 – 4080W</td>
<td>24, 48Vdc</td>
<td>350 – 528Vac</td>
<td>3 years</td>
<td></td>
</tr>
</tbody>
</table>

RWS-B Series
General AC-DC power supplies

- High power density
- Compact size
- Long e-cap lifetime
- Standby option (1000B, 1500B)

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWS05B</td>
<td>50W</td>
<td>5, 12, 24, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS100B</td>
<td>100W</td>
<td>5, 12, 24, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS150B</td>
<td>150W</td>
<td>5, 12, 15, 24, 28, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS300B</td>
<td>300W</td>
<td>5, 12, 15, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS600B</td>
<td>600W</td>
<td>5, 12, 15, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS1000B/S</td>
<td>1000W</td>
<td>12, 15, 24, 36, 48Vdc + 5Vdc Aux.</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS1500B/S</td>
<td>1500W</td>
<td>12, 15, 24, 36, 48Vdc + 5Vdc Aux.</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS1000B/ME</td>
<td>1000W</td>
<td>12, 15, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
<tr>
<td>RWS1500B/ME</td>
<td>1500W</td>
<td>12, 15, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>7 years</td>
<td></td>
</tr>
</tbody>
</table>
## CUS-M Series

**Models from 30W to 1500W**

- Safety Certifications EN62368-1 and EN60601-1
- Suitable for B and BF rated equipment (2 x MOPP)
- Class B conducted and radiated EMI
- High efficiency up to 96%
- Models suitable for Class I and Class II installations
- Peak power ratings up to 30 minutes (CUS400M), up to 1000W (CUS350MP-1000)
- Baseplate for conduction cooling (CUS100ME, CUS150M, CUS250M, CUS400M)
- Several mechanical options

### Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Size</th>
<th>Mechanical format</th>
<th>Warranty</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUS30M</td>
<td>30W</td>
<td>12, 24, 48Vdc</td>
<td>85 – 265Vac</td>
<td>2x3&quot;</td>
<td>Open frame, enclosed</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>CUS60M</td>
<td>60W</td>
<td>5, 12, 15, 18, 24, 48Vdc</td>
<td>85 – 265Vac</td>
<td>2x3&quot;</td>
<td>Open frame, enclosed</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>CUS100ME</td>
<td>100W</td>
<td>12, 15, 24, 28, 36, 48Vdc</td>
<td>85 – 264Vac</td>
<td>2x4&quot;</td>
<td>Open frame, U-channel, baseplate, enclosed</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CUS150M</td>
<td>150W</td>
<td>12, 15, 24, 28, 36, 48Vdc</td>
<td>85 – 264Vac</td>
<td>2x4&quot;</td>
<td>Open frame, U-channel, baseplate, enclosed, enclosed with top fan</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CUS200M</td>
<td>200 – 250W</td>
<td>12, 18, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>3x5&quot;</td>
<td>Open frame, L bracket, enclosed</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>CUS250M</td>
<td>250W</td>
<td>12, 15*, 18*, 24, 28*, 36*, 48*Vdc</td>
<td>85 – 264Vac</td>
<td>2x4&quot;</td>
<td>Open frame, U-channel, enclosed, enclosed with top fan</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CUS350M</td>
<td>350 – 420W</td>
<td>12, 18, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>3.4x7.5&quot;</td>
<td>U-channel, enclosed</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>CUS350MP</td>
<td>350 – 1000W</td>
<td>24, 48Vdc</td>
<td>85 – 265Vac</td>
<td>3.46x7.2&quot;</td>
<td>Open frame, enclosed</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CUS400M</td>
<td>400W</td>
<td>12, 15, 19, 24, 28, 36, 48Vdc</td>
<td>85 – 264Vac</td>
<td>3x5&quot;</td>
<td>Open frame, baseplate, U-channel, enclosed, enclosed with top fan</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td><strong>CUS500M1</strong></td>
<td><strong>500W</strong></td>
<td>12, 19, 24, 28, 32, 36, 48Vdc</td>
<td>85 – 264Vac</td>
<td>3x5&quot;</td>
<td>Open frame, enclosed with end fan</td>
<td>5 years</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td><strong>CUS600M</strong></td>
<td><strong>600W</strong></td>
<td>12, 19, 24, 28, 32, 48Vdc</td>
<td>85 – 265Vac</td>
<td>3x5&quot;</td>
<td>Open frame, enclosed with end fan</td>
<td>5 years</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td><strong>CUS1500M</strong></td>
<td><strong>1500W</strong></td>
<td>12, 18, 24, 36, 48Vdc</td>
<td>85 – 265Vac</td>
<td>5x10.3&quot;</td>
<td>Enclosed</td>
<td>7 years</td>
</tr>
</tbody>
</table>

* coming soon

www.emea.lambda.tdk.com/cus_m
DRM40 Series
Parallel or redundancy modules

- 150% peak load, 4sec
- Reverse input protection
- -40 ~ +70°C ambient
- DC OK LEDs and signals
- Current balancing LED *
- Ultra compact footprint *

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRM40 / DRM40B</td>
<td>2x20A, 1x40A</td>
<td>10 - 30Vdc</td>
<td>10 - 30Vdc</td>
<td>3 years</td>
<td>Metal case</td>
</tr>
</tbody>
</table>

* not for 'B' type

www.emea.lambda.tdk.com/drm40

DRB 3 Phase Series
3 phase DIN-Rail power supplies

- Wide 3 phase input range for various AC power systems
- Boost current of up to 150% for 5s supports start-up into capacitive loads
- 20% power reserve enables for future system extensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRB120</td>
<td>120W</td>
<td>12, 24VDC</td>
<td>3x400...500VAC</td>
<td>3 years</td>
<td>Available with screw or push-in terminals</td>
</tr>
<tr>
<td>DRB240</td>
<td>240W</td>
<td>24, 48VDC</td>
<td>3x400...500VAC</td>
<td>3 years</td>
<td>Available with screw or push-in terminals</td>
</tr>
<tr>
<td>DRB480 *</td>
<td>480W</td>
<td>24, 48, 72VDC</td>
<td>3x400...500VAC</td>
<td>3 years</td>
<td>Available with screw or push-in terminals</td>
</tr>
<tr>
<td>DRB960 *</td>
<td>960W</td>
<td>24, 48, 72VDC</td>
<td>3x400...500VAC</td>
<td>3 years</td>
<td>Available with screw or push-in terminals</td>
</tr>
</tbody>
</table>

* coming soon

www.emea.lambda.tdk.com/dr3-phase
**DRB15-100 Series**

*Single output DIN-Rail power supplies*

- Single phase input
- Excellent efficiency – up to 93%
- Low-power devices in a polycarbonate housing for stringent safety requirements

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRB15</td>
<td>15W</td>
<td>24VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Polycarbonate housing</td>
</tr>
<tr>
<td>DRB30</td>
<td>30W</td>
<td>12, 24VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Polycarbonate housing</td>
</tr>
<tr>
<td>DRB50</td>
<td>50W</td>
<td>5, 12, 15, 24, 48VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Polycarbonate housing</td>
</tr>
<tr>
<td>DRB100</td>
<td>100W</td>
<td>24VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Polycarbonate housing</td>
</tr>
</tbody>
</table>

**DRB120-480 Series**

*Single output DIN-Rail power supplies*

- Single phase input
- Excellent efficiency – up to 93%
- Compact power supplies for efficient plant control systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRB120</td>
<td>120W</td>
<td>12, 24, 48VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Metal housing</td>
</tr>
<tr>
<td>DRB240</td>
<td>240W</td>
<td>24, 48VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Metal housing</td>
</tr>
<tr>
<td>DRB480</td>
<td>480W</td>
<td>24, 48VDC</td>
<td>85...265VAC</td>
<td>3 years</td>
<td>Metal housing</td>
</tr>
</tbody>
</table>
**Ccg Series**

**1.5 and 3W DC-DC converters**

- All purpose DC-DC converters
- Compact size
- 4:1 Wide-range DC-input
- High efficiency, up to 91%
- Six sided shielding (CCG15, CCG30)
- THT and SMD versions (CCG1R5, CCG3, CCG6, CCG10)

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Size</th>
<th>Pin style</th>
<th>Warranty</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCG1R5</td>
<td>1.5W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>4.5 – 18Vdc, 9 – 36Vdc, 18 – 76Vdc</td>
<td>0.62 x 0.41 x 0.45*</td>
<td>SMD, THT</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CCG3</td>
<td>3W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>4.5 – 18Vdc, 9 – 36Vdc, 18 – 76Vdc</td>
<td>0.62 x 0.41 x 0.45*</td>
<td>SMD, THT</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CCG6*</td>
<td>6W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>4.5 – 18Vdc, 9 – 36Vdc, 18 – 76Vdc</td>
<td>0.75 x 0.49 x 0.45*</td>
<td>SMD, THT</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CCG10*</td>
<td>10W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>4.5 – 18Vdc, 9 – 36Vdc, 18 – 76Vdc</td>
<td>0.75 x 0.49 x 0.45*</td>
<td>SMD, THT</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CCG15</td>
<td>15W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>9 – 36Vdc, 18 – 76Vdc</td>
<td>1 x 1 x 0.39*</td>
<td>THT</td>
<td>5 years</td>
<td></td>
</tr>
<tr>
<td>CCG30</td>
<td>30W</td>
<td>3.3, 5, 12, 15, ±15Vdc</td>
<td>9 – 36Vdc, 18 – 76Vdc</td>
<td>1 x 1 x 0.39*</td>
<td>THT</td>
<td>5 years</td>
<td></td>
</tr>
</tbody>
</table>

* coming soon

**i3, i6, i7 Series**

**Non-isolated DC-DC converters**

- All purpose buck, buck-boost or inverting converters
- Compact size
- Very high efficiency, up to 98%
- Minimal external components needed
- Wide output adjustment range

<table>
<thead>
<tr>
<th>Model</th>
<th>Converter type</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Package</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3A</td>
<td>Buck</td>
<td>4.5A</td>
<td>5 – 30Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/32 Brick</td>
<td></td>
</tr>
<tr>
<td>i3A</td>
<td>Buck</td>
<td>8A</td>
<td>3.3 – 16.5Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/32 Brick</td>
<td></td>
</tr>
<tr>
<td>i6A</td>
<td>Buck</td>
<td>14A</td>
<td>3.3 – 24Vdc</td>
<td>9 – 40Vdc</td>
<td>3 years</td>
<td>1/16 Brick</td>
<td></td>
</tr>
<tr>
<td>i6AN</td>
<td>Inverter</td>
<td>8A</td>
<td>-3.3 to -30Vdc</td>
<td>9 – 40Vdc</td>
<td>3 years</td>
<td>1/16 Brick</td>
<td></td>
</tr>
<tr>
<td>i6A4W</td>
<td>Buck</td>
<td>10A</td>
<td>3.3 – 40Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick</td>
<td></td>
</tr>
<tr>
<td>i6A4W</td>
<td>Buck</td>
<td>20A</td>
<td>3.3 – 15Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick SIP</td>
<td></td>
</tr>
<tr>
<td>i6A4W SIP</td>
<td>Buck</td>
<td>10A</td>
<td>3.3 – 40Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick</td>
<td></td>
</tr>
<tr>
<td>i6A4W SIP</td>
<td>Buck</td>
<td>20A</td>
<td>3.3 – 15Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick SIP</td>
<td></td>
</tr>
<tr>
<td>i7A4W</td>
<td>Buck</td>
<td>33A</td>
<td>3.3 – 24Vdc</td>
<td>18 – 60Vdc</td>
<td>3 years</td>
<td>1/16 Brick pinning</td>
<td></td>
</tr>
<tr>
<td>i7A</td>
<td>Buck</td>
<td>45A</td>
<td>3.3 – 32Vdc</td>
<td>18 – 60Vdc</td>
<td>3 years</td>
<td>1/16 Brick pinning</td>
<td></td>
</tr>
<tr>
<td>i7C4W</td>
<td>Buck-boost</td>
<td>12.5A</td>
<td>5.0 – 28Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick pinning</td>
<td></td>
</tr>
<tr>
<td>i7C4W</td>
<td>Buck-boost</td>
<td>8A</td>
<td>9.6 – 48Vdc</td>
<td>9 – 53Vdc</td>
<td>3 years</td>
<td>1/16 Brick pinning</td>
<td></td>
</tr>
</tbody>
</table>

[www.emea.lambda.tdk.com/ccg](http://www.emea.lambda.tdk.com/ccg)

[www.emea.lambda.tdk.com/i3-6-7](http://www.emea.lambda.tdk.com/i3-6-7)
RGA Series
Non-isolated buck converters

- Robust design in aluminum die cast housing
- Compact size with four mounting tabs
- Very high efficiency, up to 98%
- COTS – MIL STD-810G Shock & Vibration
- Wide output adjustment range

<table>
<thead>
<tr>
<th>Model</th>
<th>Converter type</th>
<th>Output current</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Warranty</th>
<th>Size</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGA-010 Buck</td>
<td>10A</td>
<td>3.3 – 40Vdc</td>
<td>9 – 53V</td>
<td>3 years</td>
<td>1.4 x 1.4 x 0.51&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RGA-014 Buck</td>
<td>14A</td>
<td>3.3 – 24Vdc</td>
<td>9 – 40V</td>
<td>3 years</td>
<td>1.4 x 1.4 x 0.51&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RGA-020 Buck</td>
<td>20A</td>
<td>3.3 – 15Vdc</td>
<td>9 – 53V</td>
<td>3 years</td>
<td>1.4 x 1.4 x 0.51&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PY Series
Isolated DC-DC converters

- Ultra-wide input voltage range
- EN 50155 Railway compliant
- EN 45545 Fire protection assessed
- IEC 61373 Shock and vibration tested
- EC 62368-1 (ICT) approved
- High input to output isolation strength
- Tailored heatsink options available

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power</th>
<th>Output voltage</th>
<th>Input voltage</th>
<th>Size</th>
<th>Isolation</th>
<th>Warranty</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>PYD20</td>
<td>20W</td>
<td>5, 12, 15, ±12, ±15, ±24Vdc</td>
<td>8.5 – 160Vdc (18:1)</td>
<td>2 x 1 x 0.5&quot;</td>
<td>3000Vac</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>PYG50</td>
<td>30 – 50W</td>
<td>5, 12, 24, 48Vdc</td>
<td>9 – 75Vdc (8:1)</td>
<td>Quarter-brick 2.28 x 1.45 x 0.5&quot;</td>
<td>3000Vdc</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>PYQ75</td>
<td>75W</td>
<td>12, 15, 24, 28, 48Vdc</td>
<td>14 – 160Vdc (12:1)</td>
<td>Quarter-brick 2.28 x 1.45 x 0.5&quot;</td>
<td>3000Vac</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>PYH200</td>
<td>200W</td>
<td>12, 15, 24, 48Vdc</td>
<td>14 - 160Vdc (12:1)</td>
<td>Half-brick 2.28 x 2.4 x 0.5&quot;</td>
<td>3000Vac</td>
<td>3 years</td>
<td></td>
</tr>
</tbody>
</table>
**Series**

Programmable power supplies

- 2U high
- Rack or bench mount
- USB, RS232/485 & analogue control and monitoring
- Built in arbitrary function generation and storage
- User programmable output signal pins
- Optional: LAN, IEEEE, isolated analogue interfaces & front panel output sockets

<table>
<thead>
<tr>
<th>Power</th>
<th>Output voltage ranges</th>
<th>Output current ranges</th>
<th>Warranty</th>
<th>Height</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>200W</td>
<td>0-10 ~ 0-650Vdc</td>
<td>0-20 ~ 0-0.32A</td>
<td>5 years</td>
<td>2U</td>
<td></td>
</tr>
<tr>
<td>400W</td>
<td>0-10 ~ 0-650Vdc</td>
<td>0-40 ~ 0-0.64A</td>
<td>5 years</td>
<td>2U</td>
<td></td>
</tr>
<tr>
<td>600W</td>
<td>0-10 ~ 0-650Vdc</td>
<td>0-60 ~ 0-1A</td>
<td>5 years</td>
<td>2U</td>
<td></td>
</tr>
<tr>
<td>800W</td>
<td>0-10 ~ 0-650Vdc</td>
<td>0-72 ~ 0-1.25A</td>
<td>5 years</td>
<td>2U</td>
<td></td>
</tr>
</tbody>
</table>

33 models available

---

**GENESYS™ GSPS Series**

Configurable solutions 30kW/45kW/60kW
20U height, 19 inch rack cabinet

- Constant voltage and constant current modes with power limit operation
- Output current up to 4500A and output voltages up to 600V
- Wide three phase input range 342 – 528Vac or 170 – 265Vac
- Arbitrary waveform generation and storage with auto trigger capability
- Programmable slew rate control (Vout/Iout)
- Internal resistance programming
- Built-In remote isolated analog interface
- Built-In LAN (<LJ 1.5), USB, and RS-232/RS-485 interfaces
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) interfaces
- Blank front panel option available

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Output voltage ranges</th>
<th>Output current ranges</th>
<th>Height</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSPS</td>
<td>30kW</td>
<td>0 – 10 to 0 – 600V</td>
<td>0 – 51 to 0 – 3000A</td>
<td>20U/19”</td>
<td></td>
</tr>
<tr>
<td>GSPS</td>
<td>45kW</td>
<td>0 – 20 to 0 – 600V</td>
<td>0 – 76.5 to 0 – 2250A</td>
<td>20U/19”</td>
<td></td>
</tr>
<tr>
<td>GSPS</td>
<td>60kW</td>
<td>0 – 10 to 0 – 600V</td>
<td>0 – 102 to 0 – 4500A</td>
<td>20U/19”</td>
<td></td>
</tr>
</tbody>
</table>
GENESYS™ Series
Programmable power supplies

- Industry leading power density
  (1-7.5kW - 1U, 10kW - 2U, 15kW - 3U)
- Half Rack Mount for 1 / 1.5kW
- Standard Interfaces: LAN (U: 1.5), USB, RS-232/RS-485, isolated analogue monitoring and control
- Arbitrary waveform functions and profiles
- Scalable power systems up to 60kW (auto-configuring)
- Constant power limit and slew rate control
- Internal resistance simulation programming
- Wide range of AC inputs
- Efficiency up to 92%
- Optional EtherCAT, Modbus-TCP and IEEE488 Interfaces
- Options: blank front panel, dust filter cover, Rack Mount kits (only for GH models)

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### GENESYS™ GSPL Series
(coming soon)

<table>
<thead>
<tr>
<th>Power</th>
<th>Output voltage ranges</th>
<th>Output current ranges</th>
<th>Warranty</th>
<th>Height</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSP15</td>
<td>0-20 – 0-1500Vdc</td>
<td>0-10 – 0-750A</td>
<td>5 years</td>
<td>2U</td>
<td></td>
</tr>
<tr>
<td>GSP22.5</td>
<td>0-20 – 0-1500Vdc</td>
<td>0-15 – 0-1125A</td>
<td>5 years</td>
<td>3U</td>
<td></td>
</tr>
</tbody>
</table>

121 models available

---

www.emea.lambda.tdk.com
Power+ Solutions

What if a standard power supply does not meet your specifications? You need a different cable, or a special housing?
What if you need this "custom solution" not just once, but for high volume production?
That’s exactly the reason TDK-Lambda has developed the Power+ Solutions programme.
This programme can be adjusted to meet your needs perfectly with additional services in a modular way, up to the full package. Many successful strategic partnerships with our customers are based on the reliability of this concept.

Value of using TDK-Lambda Power+ Solutions:

• Leading range of customizable standard products
• Full back-up of engineering, logistics and manufacturing services
• Optimum flexibility of local and oversea manufacturers
• Prolonged product lifetime and quality
• Highly experienced local teams
• One dedicated contact takes care of all your demands

Programme:

• Modified standard
  - A slight modification (electrical and physical) to a standard TDK-Lambda product
  - Customized mechanical housing (chassis)
  - Filter solutions for input and output
  - Additional function and communication/signals
  - Non standard voltages
  - Cable looms and connectors
  - Ruggedisation for shock, vibration, high g and outdoor environments
  - Brick on board
  - Custom designs utilizing our broad range of AC-DC and DC-DC power modules. Benefits include low NRE and fast time to market.

• Full custom design to customer specification
  A power supply designed to meet the customer’s unique set of requirements
Programme:
• Modified standard
  - Slight modification (electrical and physical)
  - Customized mechanical housing (chassis)
  - Filter solutions for input and output
  - Additional function and communication/signals
  - Non standard voltages
  - Cable looms and connectors
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  - Brick on board
• Full custom design to customer specification
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• One dedicated contact takes care of all your demands

+cable
+brick on board
+logistic support
+Non standard voltage
+Custom housing
+Custom defined cabling / connectors
+Thermal management
+PCB for additional voltages, functions and filters
+Filter EMI
+Signals

www.emea.lambda.tdk.com
**Product Overview**

### AC-DC Chassis mount – Single output

<table>
<thead>
<tr>
<th>LS</th>
<th>CSW65</th>
<th>CUS-M</th>
<th>CUS-LD</th>
<th>GWS</th>
<th>SWS-L</th>
<th>HWS-A/HD/P/ME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>25 – 200W</td>
<td>40 – 65W</td>
<td>30 – 1500W</td>
<td>200, 250W</td>
<td>250, 500W</td>
<td>600, 1000W</td>
</tr>
<tr>
<td><strong>Main features</strong></td>
<td>Cost optimized</td>
<td>90 – 305Vac AC Input DOE Level VI, ErP Tier 2 DIN Rail mount option</td>
<td>up to 94% efficiency</td>
<td>up to 94% efficiency</td>
<td>Class C Harmonics (IEC 61000-3-2) &gt; 25% Load</td>
<td>Low profile –40°C start up –20°C to 74°C operating</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 years</td>
<td>3 years</td>
<td>3, 5, 7 years</td>
<td>3 years</td>
<td>5 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

### AC-DC Chassis mount – Multiple output

<table>
<thead>
<tr>
<th>ZWQ</th>
<th>CUT</th>
<th>MU4</th>
<th>NV/M</th>
<th>EFE/M</th>
<th>XMS500/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
<td><img src="image10.png" alt="Image" /></td>
<td><img src="image11.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>80 – 170W</td>
<td>35, 75W</td>
<td>600 – 800W</td>
<td>175 – 960W</td>
<td>300, 400W</td>
</tr>
<tr>
<td><strong>Main features</strong></td>
<td>1U height versions</td>
<td>3 outputs</td>
<td>1 – 8 outputs</td>
<td>Full digital control</td>
<td>Single output suitable for 1U</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 years</td>
<td>3 years</td>
<td>7 years</td>
<td>5 years</td>
<td>5 years</td>
</tr>
</tbody>
</table>

### AC-DC DIN Rail

<table>
<thead>
<tr>
<th>DRL</th>
<th>DRB</th>
<th>DRB 3 Phase</th>
<th>DRF</th>
<th>DRM</th>
<th>DBM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td><img src="image12.png" alt="Image" /></td>
<td><img src="image13.png" alt="Image" /></td>
<td><img src="image14.png" alt="Image" /></td>
<td><img src="image15.png" alt="Image" /></td>
<td><img src="image16.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>10 – 100W</td>
<td>15 – 480W</td>
<td>120, 240, 480W, 960W</td>
<td>120, 240, 480, 960W</td>
<td>2x20A / 1x40A</td>
</tr>
<tr>
<td><strong>Main features</strong></td>
<td>Designed for building automation systems with Class II reinforced insulation. Compact power supplies for efficient plant control systems. Efficient design for conventional mechanical and plant engineering. Well-equipped and designed for harsh environments. Buffer and redundancy modules further increase plant up-time.</td>
<td></td>
<td></td>
<td></td>
<td>20A</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>5 years</td>
<td>5 years</td>
</tr>
</tbody>
</table>

### AC-DC Programmable

<table>
<thead>
<tr>
<th>Genesys+</th>
<th>GSPS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling</strong></td>
<td><img src="image17.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>1000 – 60.000W</td>
</tr>
<tr>
<td><strong>Main features</strong></td>
<td>1kW in 1U half width up to 60kW in 12U / 19°C operation mode – arbitrary waveform · built-in USB, RS232/485, LAN (v1.5), Modbus-TCP, EtherCAT · isolated analogue · options: EEE, Anybus, blank panel, dust filter, fast speed</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 years</td>
</tr>
</tbody>
</table>
# Warranty features

## Main Output power

- **5 years**
- **3 years**
- **3.5, 7 years**
- **3 years**
- **5 years**

## Cooling

- **AC-DC Programmable**
- **AC-DC Chassis mount – Single output**
- **AC-DC Rack mount**

## Cost optimized

**90 – 305Vac AC Input**

---

### NEW MODELS

**GSPS**

**DIN Rail mount option**

**DOE Level VI, ErP Tier 2**

**low profile**

**up to 94% efficiency**

**PMBus™, USB, LAN (1U, 2U · 0 – 600V · bench, 2U rack mounted (6 units)**

---

### NEW MODELS

**CUS-LD**

**GWS SWS-L**

**HWS-A/HD/P/ME**

**AC-DC Confi gurable**

**7 years**

**3 years**

**5 years**

**5 years**

**3.3 to 104Vdc**

**1 – 8 outputs**

**600 – 800W**

**175 – 960W**

**300, 400W**

**500W**

---

### NEW MODELS

**low profile**

**up to 94% effi ciency**

**confi gurable**

**NV/M EFE/M XMS500/A**

---

### GSP

**Leading warranty**

**operating –20°C to 74°C**

**–40°C start up**

**very high reliability**

**ME: Medical**

**P: Peak power for 5sec**

**HD: Harsh environment, suitable for 1U**

**Single output · low airfl ow requirement**

---

### RWS-B/ME

**GXE600**

**RFE**

**TPS**

**CPFE/Fi**

**EVS**

**ZPSA**

**ZWS/B BAF/BP**

**50 – 1500W**

**600W**

**1000, 1600, 2500W**

**3000, 4000W**

**1000W**

**300, 600W**

**20 – 60W**

**10 – 300W**

Compact size

10-year - e-cap lifetime

## Warranty

**7 years**

**7 years**

**2 or 3 years**

**2 years**

**5 years**

**2 years**

**3 years**

**2 or 3 years**

**7 years**

---

### AC-DC Rack mount

**QM**

**QS**

**VEGA**

**FPS**

**HFE**

**TPF45000-385**

**550 – 2000W**

**600 – 1200W**

**450 – 900W**

**1000W**

**1600, 2500W**

**4500W**

**1 – 18 outputs**

**Very low audible noise**

**1 – 11 outputs**

**configurable**

**Single output · up to 3000W**

**3 units in 19” Rack · hot swap optional: I2C bus**

**Single output · 8kW in 5 slot 19”**

**10kW in 4 slot 19” · hot swap optional: PMBus™, LAN**

**PFC-Frontend, 385Vdc, 3-phase input 400 – 480Vac, PMBus™, USB**

**3 years**

---

### AC-DC Desktop

**PFH500**

**PF-A**

**KPSA/KPSB**

**KMS-A/KMD/KMT**

**KWS-A**

**KAS**

**DT/DTM**

**WMM30**

**500W**

**500, 1000W**

**5 – 25W**

**15 – 60W**

**5, 10, 15, 25W**

**4W**

**101.6 x 61.0mm size**

**PMBus™ communication (read-write) · High efficiency up to 92%**

**Low profile**

**750 or 1500W max. output power**

**PFC front end**

**Single output · no external components needed · open frame**

**2x MOPP isolation protection class II**

**Single · dual output protection class II**

**efficiency values up to 88%**

**90 – 305VAC protection class II**

**2 or 3 years**

**2 or 3 years**

**2 or 3 years**

**3 years**

**2 or 3 years**

---

### Genesys™

**Z+**

**SFL**

**Cooling**

**Max. load**

**300W, 1000W**

**Main features**

**High speed current control, integrated waveform generator, USB-interface for remote control**

**Warranty**

**2 years**

---

www.emea.lambda.tdk.com

10/22

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### Isolated DC-DC Converters

<table>
<thead>
<tr>
<th>CC-E</th>
<th>CCG NEW MODELS</th>
<th>PX NEW MODELS</th>
<th>PX-M NEW MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Package</strong></td>
<td>Designed for compact size</td>
<td>Designed for compact size</td>
<td>1x1&quot;, 1.25x0.8&quot;, 2x1&quot;, 2x1.6&quot;, 2x2&quot;</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>1.5, 3, 6, 10, 15, 30W</td>
<td>1.5, 3, 6, 10, 15, 30W</td>
<td>5, 10, 15, 20, 30, 40, 60W</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Input: DC 5, 12, 24, 48V (2:1) Output: 3.3 – 15Vdc; Single, dual outputs</td>
<td>Input: DC 5, 12, 24, 48V (4:1) Output: 3.3 – 48Vdc</td>
<td>Input: DC 12, 24, 48V (4:1) Output: 3.3 – 48Vdc</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 years</td>
<td>5 years</td>
<td>2 years</td>
</tr>
</tbody>
</table>

### Isolated DC-DC Converters

<table>
<thead>
<tr>
<th>PH-A280 NEW MODELS</th>
<th>HQA</th>
<th>GOA</th>
<th>iEA, iEH</th>
<th>iQE, iQG, iQL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Package</strong></td>
<td>1/4 Brick, 1/2 Brick, Full Brick</td>
<td>1/4 Brick</td>
<td>1/4 Brick</td>
<td>1/4 Brick</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>50, 75, 100, 150, 300, 600, 1200W</td>
<td>85W, 120W</td>
<td>120W</td>
<td>48 – 78, 300W</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

### Non-isolated DC-DC Converters

<table>
<thead>
<tr>
<th>iAH/iBH/iCH NEW MODELS</th>
<th>i3A</th>
<th>i6A</th>
<th>i7A NEW MODELS</th>
<th>i7C NEW MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Package</strong></td>
<td>0.48x0.48&quot;, 0.8x0.45&quot;, 1.3x0.53&quot;</td>
<td>1/32 Brick</td>
<td>1/16 Brick</td>
<td>1/16 Brick pin-out</td>
</tr>
<tr>
<td><strong>Topology</strong></td>
<td>Buck</td>
<td>Buck, inverter</td>
<td>Buck</td>
<td>Buck-boost</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>3, 5, 6, 12, 20, 40A</td>
<td>4.5, 8A</td>
<td>8, 10, 14, 20A</td>
<td>33, 45A</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>Input: DC 5, 12V Output: 0.6 – 8.5Vdc</td>
<td>Input: DC 12, 24V Output: 3.3 – 30Vdc</td>
<td>Input: DC 12, 24V Output: 3.3 – 40Vdc</td>
<td>Input: DC 24, 48V Output: 3.3 – 24Vdc</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
</tr>
</tbody>
</table>

### EMC-Line Filters

<table>
<thead>
<tr>
<th>RS/RT</th>
<th>SIFI</th>
<th>IEC</th>
<th>FQA/FOB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current</strong></td>
<td>0.5 – 1000A</td>
<td>3 – 36A</td>
<td>1 – 20A</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>250, 500V</td>
<td>250V</td>
<td>250V</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>1-phase, 3-phase conform to ENEC, UL, CSA, RoHS low leakage</td>
<td>1-phase conform to UL, CSA, ENEC compact size</td>
<td>1-phase conform to UL, CSA, ENEC</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 years</td>
<td>1 years</td>
<td>1 years</td>
</tr>
</tbody>
</table>

### DC-DC EMC-Filter

<table>
<thead>
<tr>
<th>FQA/FOB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current</strong></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
</tr>
<tr>
<td><strong>Features</strong></td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
</tr>
</tbody>
</table>
## Isolated DC-DC Converters

<table>
<thead>
<tr>
<th>PY NEW SERIES</th>
<th>CN NEW MODELS</th>
<th>PAH</th>
<th>PAF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x1&quot;, 1/4 Brick, 1/2 Brick</td>
<td>1/4 Brick, 1/2 Brick</td>
<td>1/2 Brick</td>
<td>Full Brick</td>
</tr>
<tr>
<td>20, 50, 75, 200W</td>
<td>30, 50, 100, 200, 300W</td>
<td>300, 350, 450W</td>
<td>504, 600, 700W</td>
</tr>
<tr>
<td>3 years</td>
<td>5 years</td>
<td>2 years</td>
<td>2 years</td>
</tr>
</tbody>
</table>

## DC-DC EMC-Filter

<table>
<thead>
<tr>
<th>DPA FQA/FQB iDQ RDEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>20A</td>
</tr>
</tbody>
</table>

## Harsh Environment

- Exceptional differential mode performance
- Metal case stud terminals

<table>
<thead>
<tr>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 years 3 years 1 years 3 years 3 years</td>
</tr>
</tbody>
</table>

## Power+ Solutions

TDK-Lambda custom power solutions include full bespoke designs, modified standards and ‘brick on board’ products. Our expertise is vast, covering 0.6V to 50kV, 1W to 50kW AC-DC and DC-DC.

### Modified standard
- A slight modification (electrical and physical) to a standard TDK-Lambda product
- Customized mechanical housing (chassis)
- Filter solutions for input and output
- Additional function and communication/signals
- Non standard voltages
- Cable looms and connectors
- Ruggedisation for shock, vibration, high g and outdoor environments
- Brick on board
- Custom designs utilising our broad range of AC-DC and DC-DC power modules. Benefits include low NRE and fast time to market.

### Full custom design to customer specification

A power supply designed to meet the customer’s unique set of requirements.
Global Operations

Regional Headquarters = bold

- Manufacturing
- R & D
- Commercial
- Manufacturing, R & D, Commercial
- R & D, Commercial
- R & D, Commercial & Central Warehouse

- Dallas TX (US)
- Hauppauge NY (US)
- Neptune NJ (US)
- San Diego CA (US)
- Ilfracombe (UK)
- Bristol (UK)
- Tim (DK)
- Achern (DE)
- Paris (FR)
- Quartino (CH)
- Hombrechtikon (CH)
- Sao Paulo (BR)
- Milan (IT)
- Leobersdorf (A)
- Tel Aviv (IL)
- Karmiel (IL)
TDK-Lambda EMEA offer responsive local sales and service support throughout EMEA backed up by important Advanced Technology Research, new product development and manufacturing centres located in EMEA.

With further design and manufacturing centres located throughout Asia and North America, TDK-Lambda has positioned itself as one of the world’s largest manufacturers of power supplies with recognized leadership.

Trust TDK-Lambda for all your healthcare power needs.
Our team of experts will be happy to help you find the best power supply for your application.

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Local Distribution

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