TDK

Power Supplies

EMEA – Edition 7

TDK·Lambda

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

TDK-Lambda Value

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 methologies 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.

Highlights

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.

MU Series

Configurable AC-DC power supplies

- Extremely low audible noise as low as 36dBA*-Intelligent Fan Control (IFC)
- Safety certifications IEC/EN/UL60601-1, 62368-1
- Full MOPP, input & output to earth and primary to secondary
- Typically serves for B and BF rated equipment
- Output flexibility continuous output voltage 3.3-105.6Vdc
- PMBus™ communication option with individual output control and diagnostics
- 1U height

PMBus medical

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Model	Output power	Number of outputs**	Output voltage	Input voltage	Warranty	Cooling	Standby supply
MU4	600-800W	1-5	3.3-105.6Vdc	85-264Vac	7 years		optional 5V or 12V
MU6	1200-1500W	1-13	3.3-105.6Vdc	85-264Vac	7 years		optional 5V or 12V

*For MU4, Configuration dependent, nominal conditions of 25°C, 115Vac / 240Vac and 80% unit power **including auxiliary outputs

QM Series

Configurable AC-DC power supplies

- Flexible with many output combinations
- Low speed, low audible noise fan
- Typically serves for B and BF rated equipment (2 x MOPP)
- PMBus™ communication option

PMBus medical

www.emea.lambda.tdk.com/qm

Model	Output power	Number of outputs*	Output voltage	Input voltage	Warranty	Cooling	Standby supply
QM4	550-650W	1-10	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V
QM5	700-800W	1-12	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V
QM5H	700-1200W	1-12	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V
QM7	1200-1500W	1-16	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V
QM8	1200-1500W	1-18	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V
QM8B	1200-2000W	1-18	2.8-105.6Vdc	90-264Vac	7 years		optional 5V or 12V

*including auxiliary outputs

QS Series

Single output AC-DC power supplies

- Typically serves for B and BF rated equipment (2 x MOPP)
- Low speed, low audible noise fan
- Dual or single fusing
- PMBus™ communication option

PMBus medical

www.emea.lambda.tdk.com/qs

Model	Output power	Number of outputs*	Output voltage	Input voltage	Warranty	Cooling	Standby supply
QS4	600W	3	12, 24, 48Vdc	90-264Vac	7 years		optional 5V or 12V
QS5	600W	3	12, 24, 48Vdc	90-264Vac	7 years		optional 5V or 12V
QS5H / QS7	1080-1200W	3	12, 24, 48Vdc	90-264Vac	7 years		optional 5V or 12V

*including auxiliary outputs

HFE3500 Series

1U Hot swap front end power supplies

- Up to 3500W output power, up to 13.3kW (4 units) in 1U rack
- Internal ORing MOSFET and current share
- Suitable for N+1 redundancy
- 24V and 48V models with 5V or 12V standby
- Efficiency up to 95%
- PMBus™ and LAN options

www.emea.lambda.tdk.com/hfe

	Model	Output power	Output voltage	Input voltage	Warranty	Cooling
NEW	HFE3500	2000-3500W	24, 48Vdc	85-264Vac	5 years	

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

www.emea.lambda.tdk.com/tps

Model	Output power	Output voltage	Input voltage	Warranty	Cooling
TPS3000	3000-3200W	24, 48Vdc	350-528Vac	3 years	
TPS4000	2000-4080W	12, 24, 48Vdc	350-528Vac	3 years	
TPS4500 *	4500-4600W	92, 184Vdc	350-528Vac	3 years	

* coming soon

HWS3000 Series

1-Phase and 3-Phase AC-DC power supplies

- Serial or analogue programming (CV/CC)
- Compact size
- Scalable voltage and current
- Series and/or parallel operation

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	Model	Output power	Output voltage	Input voltage	Warranty	Cooling
NEW	HWS3000G	1500-3000W	24, 48, 60, 80*, 130Vdc	1Ø85-265Vac	7 years	
NEW	HWS3000GT	3000W	24, 48, 60, 80, 130, 250Vdc	3Ø170-265Vac	7 years	
	HWS3000GT4 *	3000W	24, 48, 60, 80, 130, 250Vdc	3Ø340-528Vac	7 years	

* coming soon

RWS-B Series

General AC-DC power supplies

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

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Model	Output power	Output voltage	Input voltage	Warranty	Cooling
RWS50B	50W	5, 12, 24, 48Vdc	85-265Vac	7 years	
RWS100B	100W	5, 12, 24, 48Vdc	85-265Vac	7 years	
RWS150B	150W	5, 12, 15, 24, 28, 48Vdc	85-265Vac	7 years	
RWS300B	300W	5, 12, 15, 24, 36, 48Vdc	85-265Vac	7 years	
RWS600B	600W	5, 12, 15, 24, 36, 48Vdc	85-265Vac	7 years	
RWS1000B/S	1000W	12, 15, 24, 36, 48Vdc + 5Vdc Aux.	85-265Vac	7 years	
RWS1500B/S	1500W	12, 15, 24, 36, 48Vdc + 5Vdc Aux.	85-265Vac	7 years	
RWS1000B/ME*	1000W	12, 15, 24, 36, 48Vdc	85-265Vac	7 years	
RWS1500B/ME*	1500W	12, 15, 24, 36, 48Vdc	85-265Vac	7 years	

* Medical versions available

GUS Series

Compact, low profile cost effective industrial AC-DC power supplies

- 350W (convection), 600W & 1kW (forced air)
- Efficiency up to 95.5%
- Low acoustic noise, less than 45dBA (typ.)
- IEC/EN/UL62368-1, altitude 5.000m
- Designed to meet 62477-1 OVC III
- 1U height

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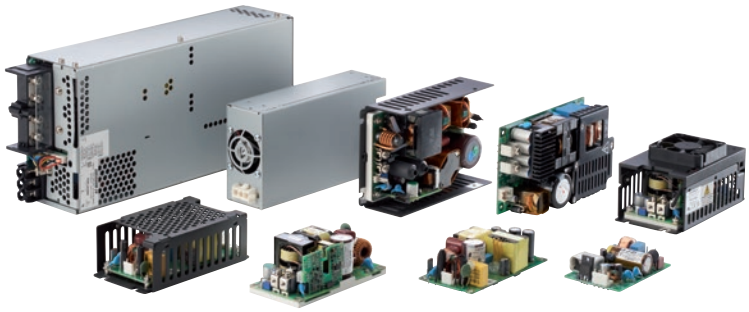
	Model	Output power	Output voltage	Input voltage	Warranty	Cooling
NEW	GUS350	300-350W	12, 24, 36, 48Vdc	85-265Vac	3 years	
NEW	GUS600	600W	12, 24, 36, 48Vdc	85-265Vac	3 years	
NEW	GUS1000	1000W	12, 24, 36, 48Vdc	85-265Vac	3 years	

CUS-M Series

Single output AC-DC power supplies from 30W to 1500W



- Safety Certifications EN62368-1 and EN60601-1
- Typically serves for B and BF rated equipment (2 x MOPP)
- Class B conducted and radiated EMI
- High efficiency up to 96%
- Models 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

medical

www.emea.lambda.tdk.com/cus_m

Model	Output power	Output voltage	Input voltage	Size	Mechanical format	Warranty	Cooling
CUS30M	30W	12, 15, 18, 24, 36, 48Vdc	85-265Vac	2x3"	Open frame, enclosed	3 years	
CUS60M	60W	5, 12, 15, 18, 24, 48Vdc	85-265Vac	2x3"	Open frame, enclosed	3 years	
CUS100ME	100W	12, 15, 18, 24, 28, 36, 48Vdc	85-264Vac	2x4"	Open frame, U-channel, baseplate, enclosed	5 years	
CUS150M	150W	12, 15, 18, 24, 28, 36, 48Vdc	85-264Vac	2x4"	Open frame, U-channel, baseplate, enclosed, enclosed with top fan	5 years	
CUS200M	200-250W	12, 18, 24, 36, 48Vdc	85-265Vac	3x5"	Open frame, L bracket, enclosed	3 years	
CUS250M	250W	12, 15, 18, 24, 28, 36, 48Vdc	85-264Vac	2x4"	Open frame with baseplate, U-channel, enclosed, enclosed with top fan	5 years	
CUS350MP	350-1000W	24, 30, 36, 48Vdc	85-265Vac	3.46x7.2"	Open frame, enclosed	5 years	
CUS400M	250-400W	12, 15, 19, 24, 28, 36, 48Vdc	85-264Vac	3x5"	Open frame with baseplate, U-channel, enclosed, enclosed with top fan	5 years	
CUS500M1	300-500W	12, 19, 24, 28, 32, 36, 48Vdc	85-264Vac	3x5"	Open frame, enclosed with end fan	5 years	
CUS600M	400-600W	12, 19, 24, 28, 32, 36, 48Vdc	85-265Vac	3x5"	Open frame, enclosed with end fan	5 years	
CUS800M	680-800W	12, 24, 36, 48Vdc	85-265Vac	3.3x6.7"	Enclosed with end fan	5 years	
CUS1000M	800-1000W	12, 24, 36, 48Vdc	85-265Vac	3.3x6.7"	Enclosed with end fan	5 years	
NEW CUS1200M	1200W	24, 36, 48Vdc	85-265Vac	3.3x7.6"	Enclosed with end fan	5 years	
CUS1500M	1500W	12, 18, 24, 36, 48Vdc	85-265Vac	5x10.3"	Enclosed with end fan	7 years	

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

www.emea.lambda.tdk.com/drb

Model	Output power	Output voltage	Input voltage	Warranty	Notes
DRB15	15W	24Vdc	85-265Vac	3 years	Polycarbonate housing
DRB30	30W	12, 24Vdc	85-265Vac	3 years	Polycarbonate housing
DRB50	50W	5, 12, 15, 24, 48Vdc	85-265Vac	3 years	Polycarbonate housing
DRB100	100W	24Vdc	85-265Vac	3 years	Polycarbonate housing

D1SE Series

Essential power supplies without compromises

- Economical and reliable with an efficiency of up to 94%
- Perfect balance of cost-effectiveness and performance without any compromises on quality
- Dedicated models with coated circuit boards to endure harsh environments

www.emea.lambda.tdk.com/d1se-series

Model	Output power	Output voltage	Input voltage	Warranty	Notes
D1SE120	120W	22.5-29Vdc	100-240Vac	3 years	DC-OK or conformal coating optional
D1SE240	240W	22.5-29Vdc	100-240Vac	3 years	DC-OK or conformal coating optional
D1SE480	480W	22.5-29Vdc	100-240Vac	3 years	DC-OK or conformal coating optional

DRB 3-Phase Series

3-Phase DIN-Rail power supplies

- Operation with AC or DC voltage for a wide range of applications
- Boost current of up to 150% supports start-up into capacitive loads
- Dedicated models with conformal coating

www.emea.lambda.tdk.com/drb-3-phase

Model	Output power	Output voltage	Input voltage	Warranty	Notes
DRB120	120W	12, 24Vdc	3x380-500Vac I 450-810Vdc	3 years	Available with screw or push-in terminals
DRB240	240W	24, 48Vdc	3x380-500Vac I 450-810Vdc	3 years	Available with screw or push-in terminals
DRB480	480W	24, 48, 72Vdc	3x380-500Vac I 450-810Vdc	3 years	Available with screw or push-in terminals
DRB960	960W	24, 48, 72Vdc	3x380-500Vac I 450-810Vdc	3 years	Available with screw or push-in terminals

DUSH Series

Uninterruptable DC power supplies

- Maximum flexibility thanks to an integrated buck-boost converter
- Modbus/RTU interface for configuration and plant monitoring
- Battery health monitoring to increase availability and safeguard the emergency event

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Model	Output current	Output voltage	Input voltage	Warranty	Notes
DUSH960-1248-0M	20A	10-58Vdc	10-60Vdc	3 years	LCD, auxiliary output
DUSH960-1248-1M	20A	10-58Vdc	10-60Vdc	3 years	

DDSM Series

DC-DC power supplies

- Features an isolated buck-boost converter with a wide voltage range
- Modbus/USB interface for configuration and plant monitoring
- Boost current and configurable overload behavior for great flexibility

	Model	Output power	Output voltage	Input voltage	Warranty	Notes
NEW	DDSM120-0555-R0	5A	5-55Vdc	11-55Vdc	3 years	
NEW	DDSM240-0555-R0	10A	5-55Vdc	11-55Vdc	3 years	

CCG Series

1.5 to 30W DC-DC converters

- All purpose DC-DC converters
- Compact size
- 4:1 Wide-range DC-input
- High efficiency, up to 92%
- Six sided shielding (CCG15, CCG30)
- THT and SMD versions (CCG1R5, CCG3, CCG6, CCG10)

www.emea.lambda.tdk.com/ccg

Model	Output power	Output voltage	Input voltage	Size	Pin style	Warranty	Cooling
CCG1R5	1.5W	3.3, 5, 12, 15, ±12, ±15Vdc	4.5-18, 9-36, 18-76Vdc	0.62 x 0.41 x 0.45”	SMD, THT	5 years	
CCG3	3W	3.3, 5, 12, 15, ±12, ±15Vdc	4.5-18, 9-36, 18-76Vdc	0.62 x 0.41 x 0.45”	SMD, THT	5 years	
CCG6	6W	3.3, 5, 12, 15, ±12, ±15Vdc	4.5-18, 9-36, 18-76Vdc	0.75 x 0.49 x 0.45”	SMD, THT	5 years	
CCG10	10W	3.3, 5, 12, 15, ±12, ±15Vdc	4.5-18, 9-36, 18-76Vdc	0.75 x 0.49 x 0.45”	SMD, THT	5 years	
CCG15	15W	3.3, 5, 12, 15, ±12, ±15Vdc	9-36, 18-76Vdc	1 x 1 x 0.39”	THT	5 years	
CCG30	30W	3.3, 5, 12, 15, ±12, ±15Vdc	9-36, 18-76Vdc	1 x 1 x 0.39”	THT	5 years	

i1, i3, i6, i7, i9 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

www.emea.lambda.tdk.com/i3-6-7

Model	Converter type	Output current	Output voltage	Input voltage	Warranty	Package	Cooling
NEW i1C	Buck-boost	10A	9.5-28Vdc	9-36Vdc	3 years	1 x 1“	
i3A	Buck	4.5, 8A	5-30, 3.3-16.5Vdc	9-53Vdc	3 years	1/32 Brick	
i6A	Buck	14A	3.3-24Vdc	9-40Vdc	3 years	1/16 Brick	
i6AN	Inverter	8A	-3.3 to -30Vdc	9-40Vdc	3 years	1/16 Brick	
i6A4W	Buck	10, 20A	3.3-40, 3.3-15Vdc	9-53Vdc	3 years	1/16 Brick	
i6A4W SIP	Buck	10, 20A	3.3-40, 3.3-15Vdc	9-53Vdc	3 years	1/16 Brick SIP	
i7A4W	Buck	33, 60A	3.3-24, 3.3-28Vdc	18-60Vdc	3 years	1/16 Brick	
i7A24	Buck	45, 80A	3.3-18Vdc	18-32Vdc	3 years	1/16 Brick	
i7A12	Buck	60, 100A	0.8-8Vdc	9-18Vdc	3 years	1/16 Brick	
i7A48	Buck	20A	3.3-32Vdc	28-60Vdc	3 years	1/16 Brick	
i7C4W	Buck-boost	8, 12.5A	9.6-48, 5.0-28Vdc	9-53Vdc	3 years	1/16 Brick	
i7C2W	Buck-boost	20A	8-24Vdc	9-36Vdc	3 years	1/16 Brick	
i9C4W *	Buck-boost	30A	9.6-60Vdc	9-80Vdc	3 years	1/4 Brick	

* coming soon

RGA, RGB, RGC Series

Non-isolated ruggedized DC-DC 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

www.emea.lambda.tdk.com/rga
www.emea.lambda.tdk.com/rgb
www.emea.lambda.tdk.com/rgc

	Model	Converter type	Output current	Output voltage	Input voltage	Warranty	Size	Cooling
	RGA-010	Buck	10A	3.3-40Vdc	9-53V	3 years	1.4 x 1.4 x 0.51”	
	RGA-014	Buck	14A	3.3-24Vdc	9-40V	3 years	1.4 x 1.4 x 0.51”	
	RGA-020	Buck	20A	3.3-15Vdc	9-53V	3 years	1.4 x 1.4 x 0.51”	
NEW	RGB-033	Buck	33A	3.3-24Vdc	18-60V	3 years	1.50 x 1.95 x 0.51”	
NEW	RGB-045	Buck	45A	3.3-18Vdc	18-32V	3 years	1.50 x 1.95 x 0.51”	
NEW	RGB-060	Buck	60A	0.8-8Vdc	9-18V	3 years	1.50 x 1.95 x 0.51”	
	RGC-008	Buck-boost	8A	9.6-48Vdc	9-53V	3 years	1.50 x 1.95 x 0.51”	
	RGC-012	Buck-boost	12A	5-28Vdc	9-53V	3 years	1.50 x 1.95 x 0.51”	

PY Series

Isolated DC-DC converters

- Ultra-wide input voltage range
- EN 50155 Railway compliant
- EN 45545-2 Fire protection assessed
- IEC 61373 Shock and vibration tested
- EC 62368-1 (ICT) approved
- High input to output isolation strength
- Tailored heatsink options available

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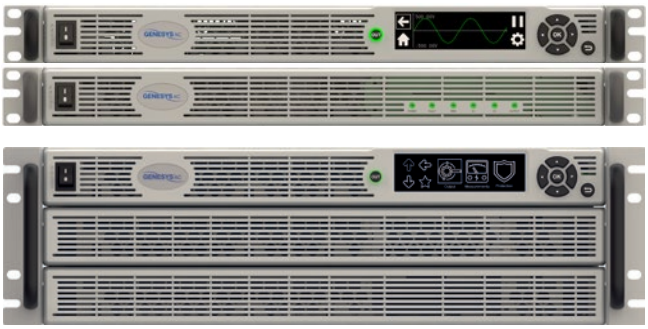
Model	Output power	Output voltage	Input voltage	Size	Isolation	Warranty	Cooling
PYD20	20W	5, 12, 15, ±12, ±15, ±24Vdc	8.5-160Vdc (18:1)	2 x 1 x 0.5”	3000Vac	3 years	
PYQ50	30-50W	5, 12, 24, 48Vdc	14-160Vdc (8:1)	Quarter-brick 2.28 x 1.45 x 0.5”	3000Vdc	3 years	
PYQ75	75W	12, 15, 24, 28, 48Vdc	9-75Vdc (12:1)	Quarter-brick 2.28 x 1.45 x 0.5”	3000Vac	3 years	
PYH200	200W	12, 15, 24, 48Vdc	14-160Vdc (12:1)	Half-brick 2.28 x 2.4 x 0.5”	3000Vac	3 years	

NEW Advanced AC Power Sources

High density, fully programmable and easy to use

- Ultra-high/class leading power density-up to 3kVA in 1U and 9kVA in 3U
- High-end specification for more accurate measurements
- Lighter than similar products
- Wide library of test profiles (avionics and IEC standard libraries)
- Single phase and three phase output
- AC, DC, AC+DC modes
- Parallel capable for higher power up to 45kVA with booster unit
- Multiple phases configuration
- LAN, USB, RS232, RS485, analogue as standard
- Full colour touch panel interface
- Crest Factor – 4:1 or 6:1 peak current
- Intuitive GUI compatible with GENESYS™ DC Series
- DC source function availability with bipolar output
- Maintenance-free operation
- GUI commonality for GENESYS™ AC and DC
- Safety IEC / UL / EN 61010-1 Ed. 3, CE / UKCA
- Five year warranty



www.emea.lambda.tdk.com/ac-sources
www.emea.lambda.tdk.com/QPF/AC-Source

	GENESYS™ AC models				GENESYS™ AC-PRO models			
Model	**GAC-02**	**GAC-03**	**GAC-06**	**GAC-09**	**GAC-PRO 02**	**GAC-PRO 03**	**GAC-PRO 06**	**GAC-PRO 09**
Rated power AC	**2000 VA**	**3000 VA**	**6000 VA**	**9000 VA**	**2000 VA**	**3000 VA**	**6000 VA**	**9000 VA**
Operating modes	AC, DC, AC+DC				AC, DC, AC+DC			
AC voltage range	0-350Vac L-N				0-350Vac L-N			
AC current range Single phase Three phase	0-20A	0-30A	0-60A 0-20A	0-90A 0-30A	0-20A	0-30A	0-60A 0-20A	0-90A 0-30A
Output frequency	16-1200Hz				16-1200Hz (16-5000Hz option)			
Peak AC current (Crest factor) Single phase Three phase	120A (6:1 CF)	120A (4:1 CF)	360A (6:1 CF) 120A (6:1 CF)	360A (4:1 CF) 120A (4:1 CF)	120A (6:1 CF)	120A (4:1 CF)	360A (6:1 CF) 120A (6:1 CF)	360A (4:1 CF) 120A (4:1 CF)
DC power	N/A				2000W	3000W	6000W	9000W
DC voltage range	N/A				from -500Vdc to +500Vdc			
DC current range paralleled channels	N/A				0-20A	0-30A	0-60A	0-90A
Output configuration	Single or three phase output*				Single or three phase output*			
Load PF	0-1 leading or lagging				0-1 leading or lagging			
AC input range Single phase Three phase	85-265Vac (Derate to 1.5kVA below 170Vac) 170-265Vac or 342-528Vac		190-240Vac or 380-480Vac		85-265Vac (Derate to 1.5kVA below 170Vac) 170-265Vac or 342-528Vac		190-240Vac or 380-480Vac	

* Multiple identical units are user configurable to parallel to higher power or split and three phase configurations.

Z+ Series

DC Programmable power supplies

- 2U high
- Rack or bench mount up to 6 units in 2U 19“ rack format
- USB, RS232/485 & analogue control and monitoring
- Built in arbitrary function generation and storage
- User programmable output signal pins
- Optional: LAN, IEEE, isolated analogue interfaces & front panel output sockets

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Power	Output voltage ranges	Output current ranges	Warranty	Height	Cooling
200W	0-10 to 0-650Vdc	0-20 to 0-0.32A	5 years	2U	
400W	0-10 to 0-650Vdc	0-40 to 0-0.64A	5 years	2U	
600W	0-10 to 0-650Vdc	0-60 to 0-1A	5 years	2U	
800W	0-10 to 0-650Vdc	0-72 to 0-1.25A	5 years	2U	

33 models available

GENESYS+™ Series

DC Programmable power supplies

- Industry leading power density (1-7.5kW-1U, 10/15kW-2U, 15/22.5kW-3U)
- Half Rack Mount for 1/1.5kW
- 1.7kW, 3.4kW, 5kW-fast-speed models up to 60V*
- 1.7kW, 3.4kW-with power sink option**
- Standard Interfaces: LAN (LXI 1.5), USB, RS-232/RS-485, isolated analogue monitoring and control
- Arbitrary waveform functions and profiles
- Scalable power systems up to 495kW (auto configuring) for more power**
- 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)

www.emea.lambda.tdk.com/genplus

Power	Output voltage ranges	Output current ranges	Warranty	Height	Cooling
GH1kW	0-10 to 0-600Vdc	0-100 to 0-1.7A	5 years	1U, ½ 19“	
GH1.5kW	0-10 to 0-600Vdc	0-150 to 0-2.6A	5 years	1U, ½ 19“	
G1kW	0-10 to 0-600Vdc	0-100 to 0-1.7A	5 years	1U	
G1.7kW	0-10 to 0-600Vdc	0-170 to 0-2.8A	5 years	1U	
G2.7kW	0-10 to 0-600Vdc	0-265 to 0-4.5A	5 years	1U	
G3.4kW	0-10 to 0-600Vdc	0-340 to 0-5.6A	5 years	1U	
G5kW	0-10 to 0-1500Vdc	0-500 to 0-8.5A	5 years	1U	
G7.5kW	0-20 to 0-1500Vdc	0-375 to 0-5A	5 years	1U	
GSP10kW	0-10 to 0-600Vdc	0-1000 to 0-17A	5 years	2U	
GSPL15kW	0-20 to 0-1500Vdc	0-750 to 0-10A	5 years	2U	
GSP15kW	0-10 to 0-600Vdc	0-1500 to 0-25.5A	5 years	3U	
GSPL22.5kW	0-20 to 0-1500Vdc	0-1125 to 0-15A	5 years	3U	

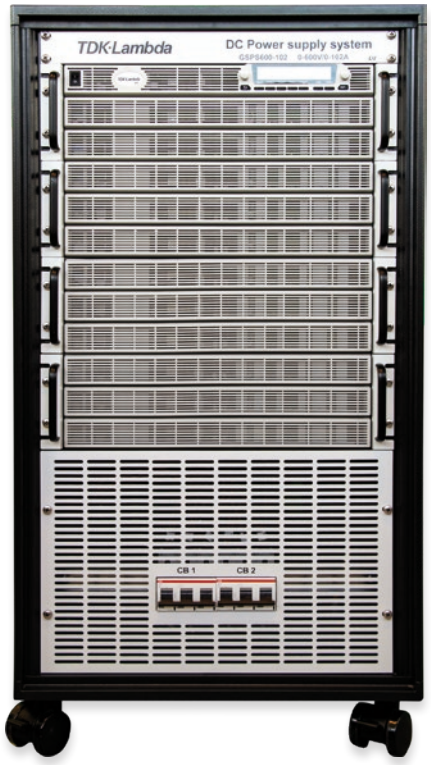
121 models available

* Possibility to combine power sink and fast speed option on the same unit ** Contact factory for availability

GENESYS+™ GSPS Series

Configurable solutions 30kW/45kW/60kW/67.5kW/90kW
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 1500V
- Wide 3-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 analogue interface
- Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 interfaces
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) interfaces
- Blank front panel option available
- Safety IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016



www.emea.lambda.tdk.com/gsps

Model	Power	Output voltage ranges	Output current ranges	Height	Cooling
GSPS	30kW	0-10 to 0-600V	0-51 to 0-3000A	20U/19”	
GSPS	45kW	0-20 to 0-600V	0-76.5 to 0-2250A	20U/19”	
GSPS	45kW	0-1000 to 0-1500V	0-45 to 0-30A	20U/19”	
GSPS	60kW	0-10 to 0-600V	0-102 to 0-4500A	20U/19”	
GSPS	67.5kW	0-1000V	0-67.5A	20U/19”	
GSPS	90kW	0-20 to 0-1500V	0-4500 to 0-60A	20U/19”	

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

TDK

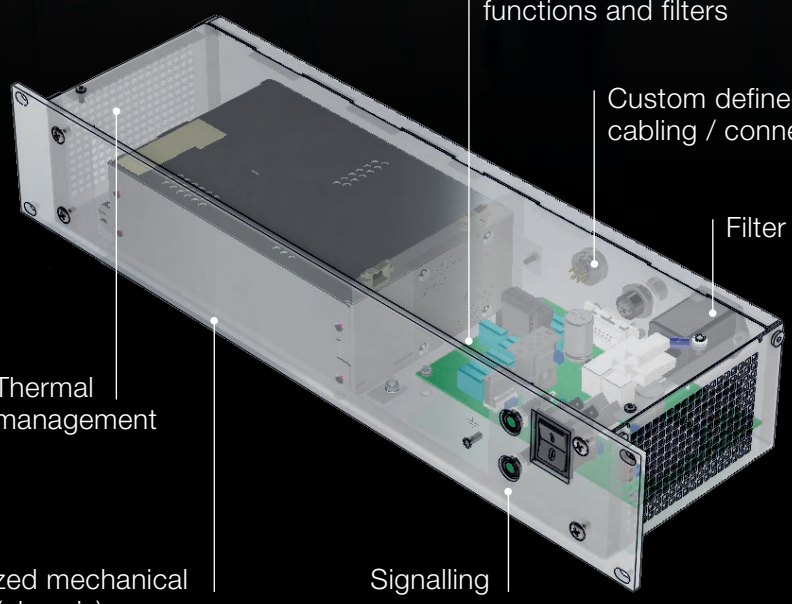
+design-in

+functional add-ons

+customer specific

+value added

+non standard



Product Overview

AC-DC Chassis mount – Single output

	LS	GUS *NEW*	CUS-M *NEW MODELS*	CUS-LD	GWS	SWS-L	HWS-A/HD/P/ME/G *NEW MODELS*
Cooling	Convection, Fan	Convection, Fan	Air Flow, Convection, Fan, Baseplate	Convection, Baseplate	Convection, Fan	Fan	Convection, Fan
Output power	25 – 200W	350 – 1000W	30 – 1500W	80 – 150W	250, 500W	600, 1000W	15 – 3000W
Main features	Cost optimized	up to 95.5% efficiency 1U hight compact OVCIII	up to 96% efficiency low profile low leakage current many case-styles	up to 90% efficiency low profile	ErP compliant Class C Harmonics (IEC 61000-3-2) > 25% Load	Low profile –40°C start up –20°C to 74°C operating	HD: Harsh environment, P: Peak power for 5sec ME: Medical very high reliability
Warranty	5 years	3 years	3, 5, 7 years	3 years	5 years	3 years	**Leading warranty ***

AC-DC Chassis mount – Multiple output

	ZWQ	CUT *NEW MODELS*
Cooling	Convection	Convection
Output power	80 – 170W	35 – 100W
Main features	1U height versions 4 outputs	3 outputs 2x4“ and 3x5“ footprint individual output regulation low profile (1.06”)
Warranty	1 years	3 years

AC-DC Configurable

	MU *NEW MODELS*	NV/M	EFE/M	XMS500A
Cooling	Fan	Air Flow, Convection, Fan	Air Flow, Fan	Air Flow, Fan
Output power	600 – 1500W	175 – 960W	300, 400W	500W
Main features	1 – 13 outputs 3.3 – 105.6Vdc Low audible noise Suitable for 1U PMBus	1 – 8 outputs configurable	Full digital control high power density	Single output suitable for 1U low airflow requirement
Warranty	7 years	3 years	5 years	5 years

AC-DC DIN Rail

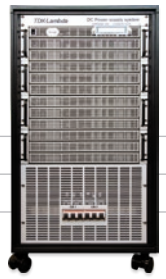
	DRL	DRB	D1SE	DRB 3 Phase	DRF	DRM	DBM
Cooling	Convection	Convection	Convection	Convection	Convection	Convection	Convection
Output power	10 – 100W	15 – 480W	120 – 480W	120, 240, 480, 960W	120, 240, 480, 960W	2x20A / 1x40A	20A
Main features	Designed for building automation systems with Class II reinforced insulation.	Compact power supplies for efficient plant control systems.	Essential power supplies without compromises on performance and quality	Efficient design for conventional mechanical and plant engineering.	Well equipped and designed for harsh environments.	Buffer and redundancy modules further increase plant up-time.	
Warranty	3 years	3 years	3 years	3 years	5 years	5 years	5 years

AC-DC Desktop

	DT/DTM	WMM30
Cooling	Convection	Convection
Output power	25 – 300W	30W
Main features	Single output ErP compliant	Single output ErP compliant Class II wide range AC input
Warranty	2 or 3 years	3 years

DC Programmable

Genesys+ ™
Genesys ™



Cooling	Fan
Output power	750 – 90.000W
Main features	750W in 1U half with up to 90kW in 20U cabinet 0 – 1500V, 0 – 4500A CV, CC, CP-operation mode, arbitrary waveform, multiple interfaces, blank panel, fast speed
Warranty	5 years

Convection Air Flow Fan Baseplate Medical

*Visit our website for more information about leading (limited lifetime) warranty

RWS-B/ME	GXE600	RFE	TPS *NEW MODELS*	CPFE/Fi	EVS	ZPSA	ZWS/C BAF/BP
50 – 1500W	600W	1000, 1600, 2500W	3000 – 4500W	1000W	300, 600W	20 – 60W	10 – 300W
Compact size 10-year +e-cap lifetime	Digital (RS-485) and analogue programming CV, CC mode up to 95% efficiency	1U · current share optional: PM Bus, internal Oring diodes	400/480 VAC 3phase voltage and current programming	Fanless diode ORing – share option I2C interface	Constant current source	2x3.5"(20W) 2x4" (40/60W) very low height profile	Long e-cap lifetime
7 years	7 years	2 or 3 years	3 years	2 years	5 years	2 years	5 years

AC-DC Rack mount

QM	QS	VEGA	HFE *NEW MODELS*	TPF45000-385
550 – 2000W	600 – 1200W	450 – 900W	1600 – 3500W	45000W
1 – 18 outputs Very low audible noise	Single output low audible noise dual or single fusing	1 – 11 outputs configurable	up to 13.3kW in 1U hot swap PMBus™, LAN options	PFC-Frontend, 385Vdc, 3-phase input 400 – 480Vac, PMBus™, USB
7 years	7 years	3 years	3 years	3 years

DC-UPS

DUSH
20A
First class reliability for mission-critical applications
3 years

Buffer module

ZBM20
20A
12,15,24V nom. 380msec. Holdup
5 years

AC-DC PCB mount – Single / multiple output

PFE	PF-B	KPSA/KPSB	KAS/KMS-A/KMD/KMT	KWS-A
300 – 1000W	1500W	5 – 25W	4 – 60W	5, 10, 15, 25W
Operating up to 100°C baseplate · PFC high efficiency	Low profile PFC front end 360Vdc output	Single output · no external components needed · open frame	90 - 305Vac protection class II 2x MOPP isolation	Single · dual output protection class II efficiency values up to 88%
2 or 5 years	5 years	2 or 3 years	2 or 3 years	3 years

Z+

200, 400, 600, 800W

2U · 0 – 650V · bench, 2U rack mounted (6 units) · built in USB, RS232/485, analogue integrated arbitrary function · options: LAN, IEEE, isolated analogue, front panel output sockets

5 years

AC Power Sources

Genesys ™ AC *NEW MODELS*

2000 – 45.000VA

Single-Phase or 3-Phase · 0 – 350Vac L-N, ±500Vdc
Output frequency: DC, 16Hz to 5kHz
Multiple interfaces, integrated immunity testing

5 years

Isolated DC-DC Converters

	CC-E	CCG	PX	PX-M
Package	Designed for compact size	Designed for compact size	1x1", 1.25x0.8", 2x1", 2x1.6", 2x2"	1.25x0.8", 1.6x1", 2x1"
Cooling				
Output	1.5, 3, 6, 10, 15, 30W	1.5, 3, 6, 10, 15, 30W	5, 10, 15, 20, 30, 40, 60W	3, 6, 10, 15, 20, 30W
Features	Input: DC 5, 12, 24, 48V (2:1) Output: 3.3 – 15Vdc, Single, dual outputs	Input: DC 5, 12, 24, 48V (4:1) Output: 3.3 – 15Vdc Single, dual outputs	Input: DC 12V, 24V, 48V Output: 3.3 – 48Vdc Single, dual, tripple outputs	Input: DC 12, 24, 48V (4:1) Output: 3.3 – 48Vdc
Warranty	5 years	5 years	2 years	5 years

Isolated DC-DC Converters

	PH-A280	HQA	GQA	iEA, iEH	iQE, iQG, iQL
Package	1/4 Brick, 1/2 Brick, Full Brick	1/4 Brick	1/4 Brick	1/8 Brick	1/4 Brick
Cooling					
Output	50, 75, 100, 150, 300, 600, 1200W	85W, 120W	120W	48 – 78, 300W	72 – 504W
Features	Input: DC 280V Output: 3.3 – 48Vdc	Input: DC 12, 24V Output: 5 – 48Vdc	Input: DC 12, 24V Output: 5 – 48Vdc	Input: DC 48V Output: 5 – 28Vdc	Input: DC 48V Output: 1.2 – 28Vdc
Warranty	5 years	3 years	3 years	3 years	3 years

Non-isolated DC-DC Converters

	iAH/iBH/iCH	i1C *NEW*	i3A/i6A	i7A *NEW MODELS*	i7C	i9C *NEW*
Package	0.48x0.48", 0.8x0.45", 1.3x0.53"	1x1"	1/16, 1/32 Brick	1/16 Brick pin-out	1/16 Brick pin-out	1/4 Brick pin-out
Topology	Buck	Buck-boost	Buck, inverter	Buck	Buck-boost	Buck-boost
Output	3, 5, 6, 12, 20, 40A	10A	4.5, 8, 10, 14, 20A	33, 45, 60, 80, 100A	8, 12.5, 20A	30A
Features	Input: DC 5, 12V Output: 0.6 – 8.5Vdc	Input: DC 24, 48V (4:1) Output: 9.6 – 28Vdc	Input: DC 24, 48V Output: 0.8 – 32Vdc	Input: DC 24, 48V Output: 0.8 – 24Vdc	Input: DC 12, 24, 48V Output: 3.3 – 24Vdc	Input: DC 9 – 80V Output: 9.6 – 60Vdc
Warranty	3 years	3 years	3 years	3 years	3 years	3 years

High Voltage POL DC-DC

	CHVM
Package	Various sizes (SIL)
Topology	Capacitive converter
Output	1.4 – 3W
Features	Input 12VDC Output 180 – 2000VDC
Warranty	1 years

EMC-Line Filters

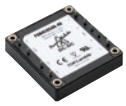
	RS/RT
Current	0.5 – 1000A
Voltage	250, 500V
Features	1-phase, 3-phase conform to ENEC, UL, CSA, RoHS low leakage
Warranty	5 years

DC-DC EMC-Filter

	FQA/FQB
Package	20A
Topology	+/-40V
Output	Harsh Environment
Features	
Warranty	3 years

Convection Air Flow Fan Baseplate Medical

*Visit our website for more information about leading (limited lifetime) warranty

PY	CN-A/CN-B NEW MODELS	PAH	PAF
			
2x1", 1/4 Brick, 1/2 Brick	1/4 Brick, 1/2 Brick	1/2 Brick	Full Brick
20, 50, 75, 200W	30, 50, 100, 150, 200, 300W	300, 350, 450W	504, 600, 700W
Input: DC 24, 36, 48, 72, 96, 110V Output: 3.3 – 15Vdc Single, dual outputs	for railway Input: 24, 110Vdc Output: 5 – 48Vdc	Input: DC 24, 48V Output: 12 – 48Vdc	Input: DC 24, 48V Output: 12 – 28Vdc
3 years	5 years	2 years	2 years

DPX	DDSM NEW	EZA
DIN-Rail	DIN-Rail	19-inch Rack 1U
15, 20, 30, 40, 60W	120, 240W	2500, 11.000W
Input: DC 12, 24, 48V Output: 3.3 – 15Vdc Single, dual, tripple outputs	Isolated design with programmable conversion ratios	Bi-directional DC 320V <-> 48V (2.5kW) DC 320V <-> 240V (11kW)
3 years	3 years	5 years

Bi-directional DC-DC

RGA, RGB NEW MODELS	RGC	DDA
1.4x1.4" Die cast	1.4x1.4" Die cast	DIN-Rail
Buck	Buck-boost	Buck, inverter
10, 14, 20, 33, 45, 60A	8, 12.5A	250, 325, 500W
Input: DC 12, 24, 48V Output: 0.8 – 40Vdc	Input: DC 12, 24, 48V Output: 3.3 – 48Vdc	Input: DC 12, 24, 48V Output: 3.3 – 24Vdc Single, dual outputs
3 years	3 years	3 years

RGF NEW	iDQ	RDEN
20, 40A	10A	50A
up to 80Vdc	up to 75V	48V
Exceptional differential mode performance, Encapsulated in 5-sided metal case	Exceptional differential mode performance	Metal case stud terminals
3 years	3 years	1 years

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 90kW 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.

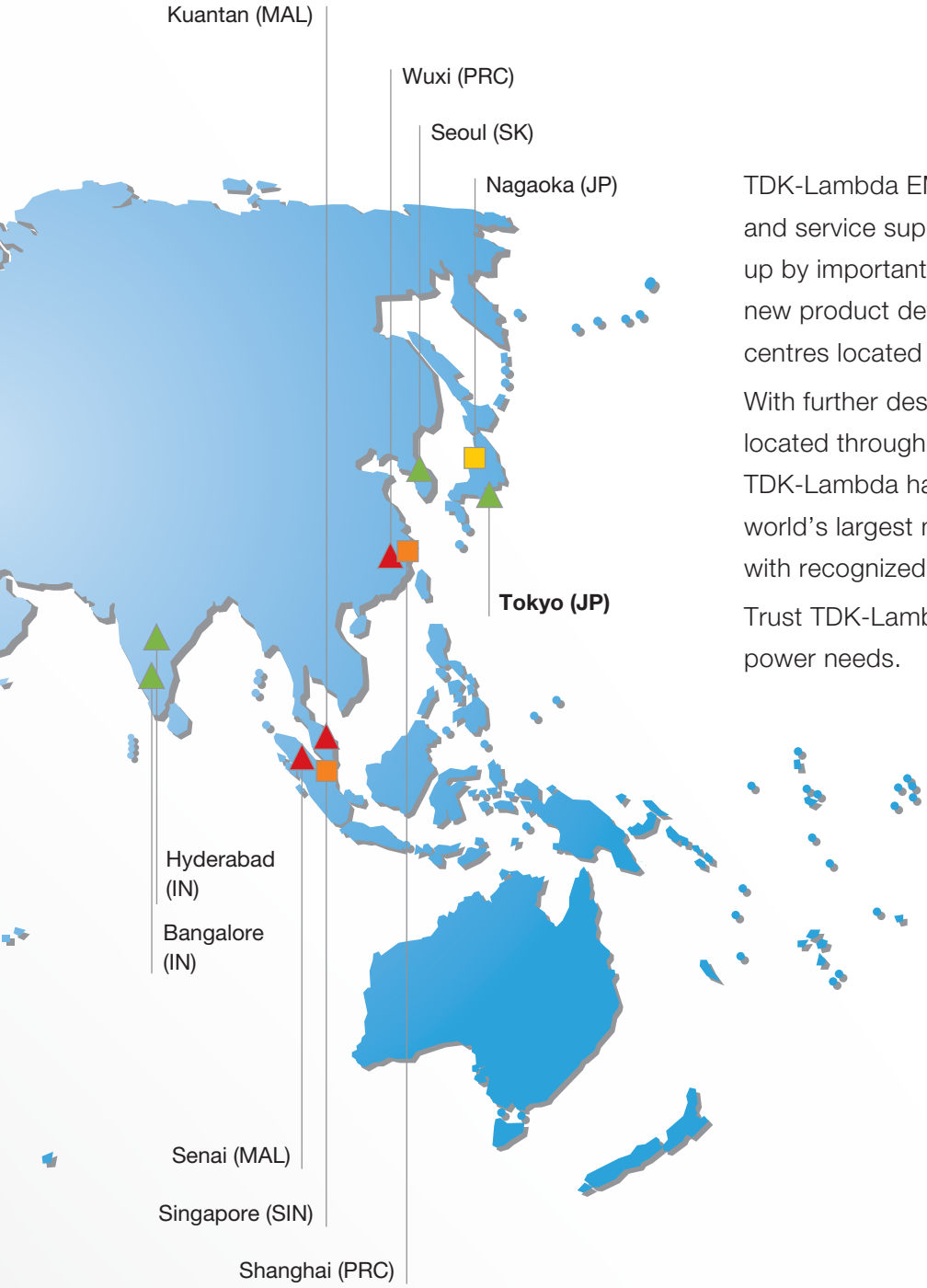
Full custom design to customer specification

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



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

Whilst TDK-Lambda tries to ensure that the information contained in this Catalogue is accurate it does not accept liability for any inaccuracies.
In exceptional circumstances TDK-Lambda reserves the right, without notice or liability, to withdraw products or alter specifications at any time.

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