

Power Supplies



TDK-Lambda Trusted • Innovative • Reliable

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 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.



TDK-Lambda ranked as #1 supplier within the Medical and the Industrial sector across AC-DC and DC-DC Merchant Power Supply revenues market.

(According to the IHS Markit's AC-DC & DC-DC Merchant market report - 2019 edition)

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.

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)



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Model	Output power	Number of outputs	Output voltage	Input voltage	Warranty	Cooling	Medical
XMS500	500W	1	12, 24, 36, 48Vdc	90 – 264Vac	5 years		

QM Series

Configurable AC-DC power supplies

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



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

*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
- Option: PMBus™ communication



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	Model	Output power	Number of outputs*	Output voltage	Input voltage	Warranty	Cooling	Medical
NEW	QS4	600W	3	12, 24, 48Vdc	90 – 264Vac	7 years		
	QS5	600W	3	24, 48Vdc	90 – 264Vac	7 years		
	QS5H / QS7	1080 – 1200W	3	12, 24, 48Vdc	90 – 264Vac	7 years		

*including auxiliary outputs

CM4 Series

Configurable AC-DC power supplies

- Flexible with many output combinations
- Wide output adjustment
- Remote programming of voltage and current
- Compact 4 x 7 inch size (102x178mm) 1U, (41mm) high
- 4kVAC (2xMOPP) input to output isolation
- MIL-STD-461F compliant



www.emea.lambda.tdk.com/cm4



	Model	Output power	Number of outputs*	Output voltage	Input voltage	Warranty	Cooling	Medical
	CM4	600W	1 – 5	1.5 – 232Vdc	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



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	Model	Output power	Output voltage	Input voltage	Warranty	Cooling
NEW	TPS3000	3000 – 3200W	24, 48Vdc	350 – 528Vac	3 years	
	TPS4000	4000 – 4080W	24, 48Vdc	350 – 528Vac	3 years	

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	Medical
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	⚙️	
NEW RWS1000B/S	1000W	12, 15, 24, 36, 48Vdc + 5Vdc Aux.	85 – 265Vac	7 years	⚙️	
NEW 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	⚙️	+

CUS-LD Series

Single output low profile AC-DC power supplies

- Slim design (for use in panels)
- Up to 206W peak power (CUS200LD)
- High efficiency, up to 90%



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www.emea.lambda.tdk.com/cus250ld

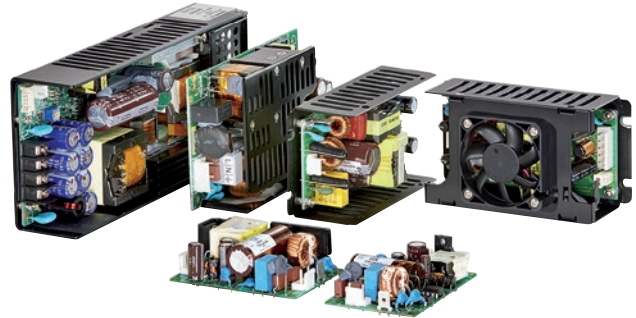


Model	Output power	Output voltage	Input voltage	Warranty	Size	Cooling
CUS200-LD	150W	5, 7.5, 12, 15, 24, 48Vdc	85 – 265Vac	3 years	160 x 60 x 31mm	↓ ⚙️
CUS250-LD	250W	3.3, 4.2, 5, 12, 24Vdc	85 – 265Vac	3 years	198 x 102 x 30mm	↓

CUS-M Series

General AC-DC power supplies

- Low profile
- High efficiency, up to 94%
- High operating temperature range up to 85°C
- 5000m altitude
- BF ready medical isolation (MOPP)
- ErP compliant
- IEC60335-1 compliant models available



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Model	Output power	Output voltage	Input voltage	Size	Mechanical format	Warranty	Cooling	Medical
CUS30M	30W	12, 24, 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	↓, ↓	+
CUS350M	350 – 420W	12, 18, 24, 36, 48Vdc	85 – 265Vac	3.4x7.5"	U-channel, enclosed	3 years	↓, ↓	+
NEW CUS400M	400W	12, 15, 19, 24, 28, 36, 48Vdc	85 – 264Vac	3x5"	Open frame, baseplate, U-channel, enclosed, enclosed with top fan	5 years	↓, ↓, ↓, ↓, ↓	+
NEW CUS600M	600W	12, 19, 24, 28, 32, 36, 48Vdc	85 – 265Vac	3x5"	Open frame, enclosed with end fan	5 years	↓, ↓, ↓, ↓	+
CUS1500M	1500W	12, 15, 24, 36, 48Vdc	85 – 265Vac	5x10.3"	Enclosed	7 years	↓	+

DRB Series

Single output DIN Rail power supplies

- Long e-cap lifetime
- Efficiency up to 92%
- Low No-Load input power



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Model	Output power	Output voltage	Input voltage	Warranty	Notes	Cooling
DRB15	15W	24Vdc	85 – 265Vac	3 years	Plastic case	↓
DRB30	30W	12, 24Vdc	85 – 265Vac	3 years	Plastic case	↓
DRB50	50W	5, 12, 15, 24, 48Vdc	85 – 265Vac	3 years	Plastic case	↓
DRB100	100W	24Vdc	85 – 265Vac	3 years	Plastic case	↓
NEW DRB120	120W	12, 24, 48Vdc	85 – 264 Vac	3 years	Metal case	↓
NEW DRB240	240W	12, 24, 48Vdc	85 – 264 Vac	3 years	Metal case	↓
DRB480	480W	24, 48Vdc	90 – 264Vac	3 years	Metal case	↓

DRF Series

High efficiency DIN Rail power supplies

- Ultra compact footprint
- Efficiency up to 94%
- 150% peak power, 4sec
- Remote on/off
- Remote programming
- ErP compliant design



www.emea.lambda.tdk.com/drif



Model	Output power	Output voltage	Input voltage	Warranty	Notes	Cooling
DRF120	120W	24Vdc	85 – 264Vac	5 years	Metal case	↓
DRF240	240W	24Vdc	85 – 264Vac	5 years	Metal case	↓
DRF480	480W	24Vdc	85 – 264Vac	5 years	Metal case	↓
DRF960	960W	24Vdc	180 – 264Vac	5 years	Metal case	↓

DRL Series

Low profile DIN Rail power supplies

- Low profile for wall-mount cabinet
- High efficiency, up to 90%
- Long e-cap lifetime
- UL1310 Class 2 compliant
- Protection Class II
- ErP compliant design



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Model	Output power	Output voltage	Input voltage	Warranty	Notes	Cooling
DRL10	10W	12, 24Vdc	85 – 264Vac	3 years	Plastic case	↓
DRL30	30W	12, 15, 24Vdc	85 – 264Vac	3 years	Plastic case	↓
DRL60	60W	12, 15, 24Vdc	85 – 264Vac	3 years	Plastic case	↓
DRL100	100W	24Vdc	85 – 264Vac	3 years	Plastic case	↓
DRL100 /C2	88W	24Vdc	85 – 264Vac	3 years	Plastic case	↓

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 *



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Model	Output power	Output voltage	Input voltage	Warranty	Notes	Cooling
DRM40 / DRM40B	2x20A, 1x40A	10 - 30Vdc	10 - 30Vdc	3 years	Metal case	

*not for 'B' type

CCG Series

Isolated DC-DC Converters

- Industry standard 1" x 1" footprint
- Wide range DC input 9 – 36 or 18 – 76V
- High efficiency, up to 91%
- Six sided shielding



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Model	Output power	Output voltage	Input voltage	Warranty	Cooling
CCG15	15W	3.3, 5, 12, 15, +/-12, +/-15Vdc	9 – 36Vdc 18 – 76Vdc	5 years	
CCG30	30W	3.3, 5, 12, 15, +/-12, +/-15Vdc	9 – 36Vdc 18 – 76Vdc	5 years	

GQA Series

Isolated DC-DC Converters

- Standard quarter brick for rugged environments
- Flanged baseplate, open frame; non-flanged baseplate
- 9 – 36 and 18 – 36Vdc inputs
- High efficiency up to 91.5%
- Up to 105°C baseplate temperatures
- 1,500Vdc isolation (2,250Vdc or 3,000Vdc option)



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Model	Output power	Output voltage	Input voltage	Warranty	Cooling
GQA120	120 W	5, 12, 15, 24, 28Vdc	9 – 36Vdc	3 years	
GQA120	120 W	48Vdc	18 – 36Vdc	3 years	

i3-6-7 Series

Non-isolated DC-DC Converters

- Very high efficiency, up to 98%
- Minimal external components needed
- Wide output adjustment
- Buck-Converter (i7C Buck-/Boost-Converter)



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



Model	Output current	Output voltage	Input voltage	Warranty	Package	Cooling
i3A	4.5A	5 – 30Vdc	9 – 53Vdc	3 years	1/32 Brick	↓ ↻
i3A	8A	3.3 – 16.5Vdc	9 – 53Vdc	3 years	1/32 Brick	↓ ↻
i6A	14A	3.3 – 24Vdc	9 – 40Vdc	3 years	1/16 Brick	↓ ↻
i6AN	8A	-3.3 to -30Vdc	9 – 40Vdc	3 years	1/16 Brick	↓ ↻
i6A4W	10A	3.3 – 40Vdc	9 – 53Vdc	3 years	1/16 Brick	↓ ↻
i6A4W	20A	3.3 – 15Vdc	9 – 53Vdc	3 years	1/16 Brick	↓ ↻
NEW i6A4W SIP	10A	3.3 – 40Vdc	9 – 53Vdc	3 years	1/16 Brick	↓ ↻
NEW i6A4W SIP	20A	3.3 – 15Vdc	9 – 53Vdc	3 years	1/16 Brick SIP	↓ ↻
NEW i7A4W	33A	3.3 – 24Vdc	18 – 60Vdc	3 years	1/16 Brick wide	↓ ↻
NEW i7A	45A	3.3 – 18Vdc	18 – 32Vdc	3 years	1/16 Brick wide	↓ ↻
NEW i7C4W	12.5A	5.0 – 28Vdc	9 – 53Vdc	3 years	1/16 Brick wide	↓ ↻
NEW i7C4W	8A	9.6 – 48Vdc	9 – 53Vdc	3 years	1/16 Brick wide	↓ ↻

z+ 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, IEEE, isolated analogue interfaces & front panel output sockets



www.emea.lambda.tdk.com/zplus



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

33 models available

GENESYS™ Series

Programmable power supplies

- Industry leading power density (1-5kW - 1U, 10kW - 2U, 15kW - 3U)
- Half Rack Mount for 1 / 1.5kW
- 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 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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	Power	Output voltage ranges	Output current ranges	Warranty	Height	Cooling
NEW	GH1kW	0-10 – 0-600Vdc	0-100 – 0-1.7A	5 years	1U, ½ 19"	
NEW	GH1.5kW	0-10 – 0-600Vdc	0-150 – 0-2.6A	5 years	1U, ½ 19"	
NEW	G1kW	0-10 – 0-600Vdc	0-100 – 0-1.7A	5 years	1U	
	G1.7kW	0-10 – 0-600Vdc	0-170 – 0-2.8A	5 years	1U	
NEW	G2.7kW	0-10 – 0-600Vdc	0-265 – 0-4.5A	5 years	1U	
NEW	G3.4kW	0-10 – 0-600Vdc	0-340 – 0-5.6A	5 years	1U	
	G5kW	0-10 – 0-600Vdc	0-500 – 0-8.5A	5 years	1U	
	GSP10kW	0-10 – 0-600Vdc	0-1000 – 0-17A	5 years	2U	
	GSP15kW	0-10 – 0-600Vdc	0-1500 – 0-25.5A	5 years	3U	

109 models available

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 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

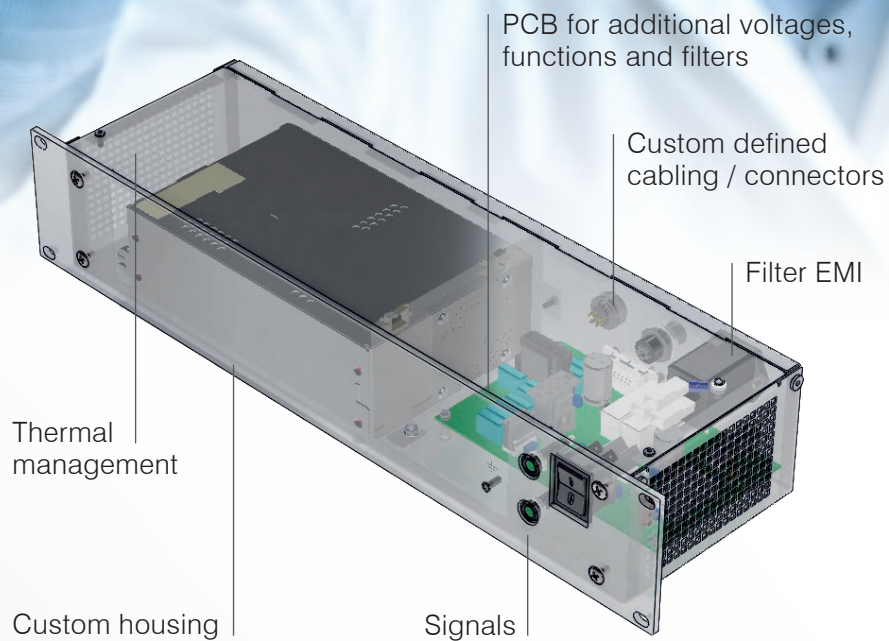


+ brick on board

+ cable






+ Non standard voltage

+ logistic support









Product Overview

AC-DC Chassis mount – Single output





	LS	CSW65	CUS/M NEW	CUS/LD NEW	GWS	SWS-L	HWS-A/HD/P/ME
							
Cooling	↓	↓	↓	↓	↓	↓	↓
Output power	25 – 200W	40 – 65W	30 – 1500W	200, 250W	250, 500W	600, 1000W	15 – 1500W
Main features	Cost optimized	90 – 305Vac AC Input DOE Level VI, ErP Tier 2 DIN Rail mount option	30, 60, 100, 150, 200, 350, 400, 600, 1500W up to 94% efficiency low profile	200, 250W up to 94% 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	2 or 3 years	Leading warranty *

AC-DC Chassis mount – Multiple output

	ZP/D/T	ZWQ	CUT	VEGA	ZWD-PAF	NV/M
						
Cooling	↓	↓	↓	↓	↓	↓
Output power	40W	80 – 170W	35, 75W	450 – 900W	100 – 440W	175 – 960W
Main features	Dual & triple outputs	1U height versions 4 outputs	3 outputs 2x4" and 3x5" footprint individual output regulation low profile (1.06")	1 – 11 outputs configurable	2 outputs 200% peak power capability	1 – 8 outputs configurable
Warranty	2 years	1 years	3 years	3 years	2 years	3 years



AC-DC Configurable

AC-DC DIN Rail

	DRL/C2	DRB	DRF	DRM40 NEW	DDA NEW	DPX	PFE
							
Cooling	↓	↓	↓	↓	↓	↓	↓
Output power	10, 30, 60, 88, 100W	15, 30, 50, 100, 120, 240, 480W	120, 240, 480, 960W	2x20A / 1x40A	250 - 500W	15 – 60W	300 – 1000W
Main features	Class II · ErP compliant low profile: 56mm	ErP compliant compact footprint excellent efficiency	150% peak load, remote prog.	Redundancy module 150% peak load, 4sec Ta=–40~+70°C:100%	Input: 9 – 53VDC Output: 3.3 – 24V	Input: 24/48VDC Output: 1.2 – 30V	Operating up to 100°C baseplate · PFC high efficiency
Warranty	3 years	3 years	5 years	5 years	5 years	2 years	2 or 5 years

AC-DC PCB mount –

AC-DC Programmable

	Genesys+™ NEW	Genesys™
		
Cooling	↓	↓
Output power	1000 – 15.000W	750 – 5000W
Main features	1kW in 1U half weight, 1.7kW - 5kW in 1U, 10kW in 2U, 15kW in 3U · up to 30kW in 6U / 19" 0 – 600V · CV, CC, CP operation mode · arbitrary waveform · built-in USB, RS232/485, LAN (V1.5), Modbus-TCP, EtherCAT · isolated analogue · options: IEEE, Anybus, blank panel, dust filter	1U, 2U · 0 – 600V · bench, rack (19") · built in RS-232/485, analogue · options: LAN, IEEE, Power Sink, Fast speed, isolated analogue · extension: r-SINK function (electronic power sink)
Warranty	5 years	5 years












RWS-B/ME	GXE600 NEW	RFE	TPS NEW	CPFE/Fi	EVS	ZPSA	ZMS100	ZWS/B BAF/BP
50 – 1500W	600W	1000, 1600, 2500W	3000, 4000W	1000W	300, 600W	20 – 100W	100W	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) 3x5", (100W) very low height profile	Long e-cap lifetime 2x MoPP isolation ceramic start-up cap	Long e-cap lifetime
7 years	7 years	2 or 3 years	3 years	2 years	5 years	2 years	3 years	5 years

						AC-DC Desktop	
EFE/M	XMS500	CM4	QM NEW	QS NEW	VEGA	DT/DTM NEW	WMM30 NEW
300, 400W	500W	600 – 750W	550 – 2000W	600 – 1200W	450 – 900W	25 – 300W	30W
Full digital control high power density	Single output suitable for 1U low airflow requirement	Wide output adjustment remote programmable voltage/current	1 – 18 outputs Very low audible noise	Single output low audible noise dual or single fusing	1 – 11 outputs configurable	Single output ErP compliant	Single output ErP compliant Class II wide range AC input
5 years	5 years	5 years	7 years	7 years	3 years	2 or 3 years	3 years











Single / multiple output						AC-DC Rack mount	
PFH500	PF-A	KPSA/KPSB NEW	KMS-A/KMD/KMT	KWS-A	KAS	FPS	HFE
500W	500, 1000W	5 – 25W	15 – 60W	5, 10, 15, 25W	2, 4W	1000W	1600, 2500W
101.6 x 61.0mm size PMBus™ communication (read-write) · High effi- ciency 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	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
3 years	2 years	2 or 3 years	2 or 3 years	3 years	3 years	2 years	3 years

Z+	ZUP
200, 400, 600, 800W	200, 400, 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	3U · 0 – 120V · bench, 3U rack mounted (3 / 6 units) · built-in RS232/485, analogue options: IEEE (external), front panel output sockets
5 years	3 years









DC-DC Isolated Brick Modules

	iSA	iEA/iEE/iEF	iQB/iQE/iQL	PH-50/100/150A	PH-300A
					
	1/16 Brick	1/8 Brick	1/4 Brick	1/4 Brick	1/2 Brick
Cooling			 		
Output power	25 – 83W	50 – 240W	15 – 300W	50 – 150W	300W
Output voltage	Input: 48VDC Output: 3.3 – 12V	Input: 24/48VDC Output: 1.2 – 28V	Input: 24/48VDC Output: 1.2 – 28V	Input: 280VDC Output: 3.3 – 48V	Input: 280VDC Output: 12 – 48V
Warranty	3 years	3 years	3 years	5 years	5 years





DC-DC Isolated Industrial DC-DC Converters

	CC-E	CC-G	PX	DC-DC Isolated Medical	DC-DC Non-isolated
					
Cooling					
Output	1.5 – 30W Input: 5 – 48VDC 1 – 2 Outputs: 3.3 – 15V	15 – 30W 4:1 Input 24/48V Output: 3.3 – 15V Single and dual output	5 – 60W Input: 12/24/48VDC 1 – 3 Outputs: 1.5 – 15V	3 – 30W 4:1 Input 24/48V 1 – 2 Outputs: 3.3 – 24V High isolation	12 – 40A Input: 4.5 – 14V Output: 0.6 – 8.5V
Warranty	5 years	5 years	2 years	5 years	3 years

Application Specific Modules

	DPX (Din-Rail)	Vega (Modular)	CN-A (Railway)	EZA (Renewable)
				
Cooling				
Output power	15 – 60W Input: 24/48VDC Output: 1.2 – 30V	370 – 450W Input: 34 – 75VDC 1 – 11 Outputs: 1.8 – 56V	30 – 200W Input: 24/110VDC Output: 5 – 24V	2500, 11000W Input: 320V/48V or 320/240V Bi-directional DC-DC Converter
Warranty	2 years	3 years	5 years	5 years

EMC-Line Filters

	RS/RT	SIFI	IEC	DC-DC EMC-Filter
				
Current	0.5 – 1000A	3 – 36A	1 – 20A	20A
Voltage	250, 500V	250V	250V	+/-40V
Features	1-phase, 3-phase conform to ENEC, UL, CSA, RoHS low leakage	1-phase conform to UL, CSA, ENEC compact size	1-phase conform to UL, CSA, ENEC	Harsh Environment
Warranty	5 years	1 years	1 years	3 years

DC-DC Isolated Intermediate Bus Architecture Converters				
PH-600A <i>NEW</i>	PAF	iEH	iQL/iQG	iFB
1/2 Brick	Full Brick	1/8 Brick	1/4 Brick	
600W	450 – 700W	300W	250 – 540W	500 – 600W
Input: 280VDC Output: 24V	Input: 24 – 280VDC Output: 12 – 48V	Input: 48VDC Output: 9.6 – 12V	Input: 48VDC Output: 9.6 – 12V	Input: 48VDC Output: 9.6 – 12V
5 years	2 years	3 years	3 years	3 years

POL Modules	
i3A/i6A	i7A/i7C <i>NEW</i>
Industrial POL	Industrial POL
4.5 – 20A	8 – 45A
Input: 9 – 53V Output: +/-3.3 – 30V	Input: 9 – 60V Output: 3.3 – 48V
3 years	3 years

Harsh Environment Converters	
HQA (Harsh environment)	GQA
85, 120W	120W
Input: 10 – 40V Output: 5 – 48V –55 to 115°C baseplate temperature	Input: 9 – 36V Output: 5 – 48V –40 to 105°C baseplate temperature
3 years	3 years

iDQ	RDEN
10A	50A
up to 75V	46V
Exceptional differential mode performance	Metal case stud terminals
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 50kW AC-DC and DC-DC.

Modified standard

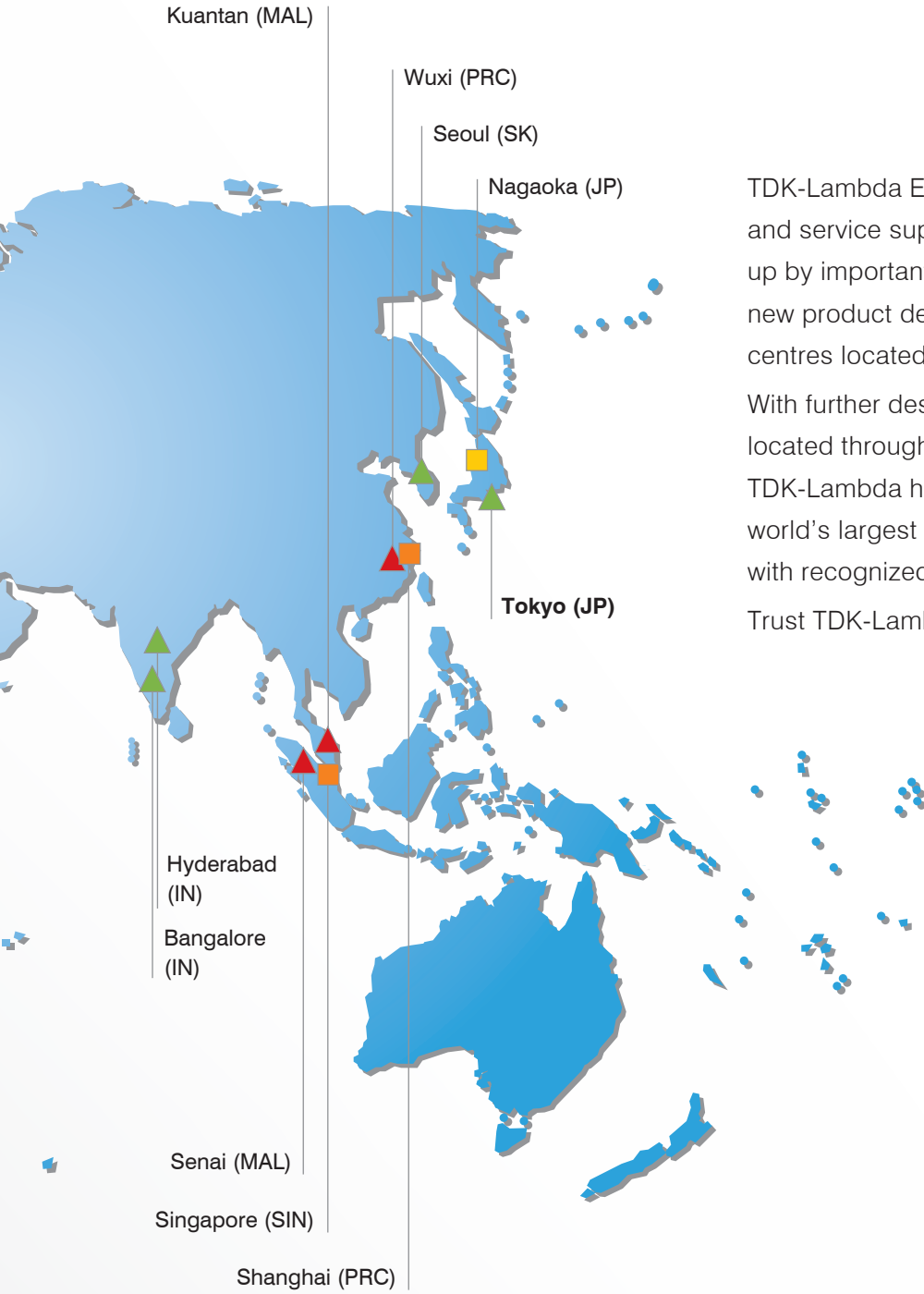
- A slight modification (electrical and physical) to a standard TDK-Lambda product
- Customized mechanical housing (chassis)
- Filter solutions for input and output
- Additional function and communication/signals
- Non standard voltages
- Cable looms and connectors
- Ruggedisation for shock, vibration, 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





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 power needs.

Get in contact to find the best solution to your application.



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