

# New Power

## Power Supply Highlights

# 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 newest power supplies.

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



# Discover our newest Highlights

Here we would like to present our newest 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.

## AC-DC

[DBM20 Series](#) – 24Vdc 20A DIN Rail Mount Buffer Module

[CUS400M](#) – 3 x 5" 400W Medical AC-DC Power Supplies

[CUS600M](#) – 3 x 5" 600W Medical AC-DC Power Supplies

[TPS4000](#) – 4080W 3-Phase Input Industrial Power Supplies

[WMM30](#) – 25 to 30W Medical Wall Mount Power Supplies

[DTM36-C8](#) – 25 to 36W Medical AC-DC External Power Supplies

[KPSB6](#) + [KPSB25](#) – 5 to 25W AC-DC Board Mount Power Supplies

[GENESYS™](#) – 1kW and 1.5kW 1U Half Rack Mount power Supplies

## DC-DC

[i7A](#) – 750W, 18 to 60V Input non-isolated Step Down DC-DC Converter

[PXD-M 30](#) – 30W Medical and Industrial DC-DC Converters

[PXG-M 15/20](#) – 15 to 20W Medical and industrial DC-DC Converter

[i7C](#) – 300W, 9-53V Input, Buck-Boost non-isolated DC-DC Converters

[DDA](#) – 250 to 500W Wide range, non-isolated DC-DC Converters

[PH600A280-24](#) – 600W High Density Power Modules

[EZA](#) – 11,000W Bi-Directional DC-DC Converter

NEW RANGE

# DBM20 – Series

24Vdc 20A DIN Rail Mount Buffer Module



The DBM module is ideal for providing short term hold-up or peak power for loads connected to a 24Vdc output AC-DC power supply. It can supply an additional 250ms hold-up at 448W output power.

Features		Benefits		
Provides 250ms additional hold-up time at 448W		Avoids data loss during AC power dips		
Utilizes electrolytic capacitors to store energy		No batteries to service or maintain		
Narrow 49mm width		Increases available space on the DIN rail		
Parallel capable		Hold-up time can be easily extended		
Output remote on/off function		Avoids unsafe discharge of stored energy		

Model	Input voltage range Vin	Output voltage	Average buffer power	Maximum current
DBM20	23 – 30Vdc	22,4Vdc or Vin-1Vdc	448W	20A

[Product-Website](#)

[Datasheet](#)

[Product-Video](#)

NEW MODEL

# CUS400M

3 x 5" 400W Medical AC-DC Power Supplies



Warranty  
5 years

Medical

Features				Benefits		
250W convection / conduction cooled with 400W peak for extended time periods				Quiet operation		
400W with forced air				Can utilise system airflow or integrated fan		
Medical certifications (2 x MOPP)				Suitable for B and BF type medical equipment		
Class B conducted and radiated EMI				Easier system EMC compliance		
Suitable for Class I and Class II installations				Flexible utilisation		
Compact 3 x 5 x 1.55" size				Space saving in end equipment		
Enclosure & signal options				Versatile application		

Model	Output power	Output voltage	Input voltage	Size	Mechanical format	Cooling
CUS400M	400W	12, 15, 19, 24, 28, 36, 48Vdc	85 – 264Vac	3 x 5"	Open frame, baseplate, U-channel, enclosed, enclosed with top fan	



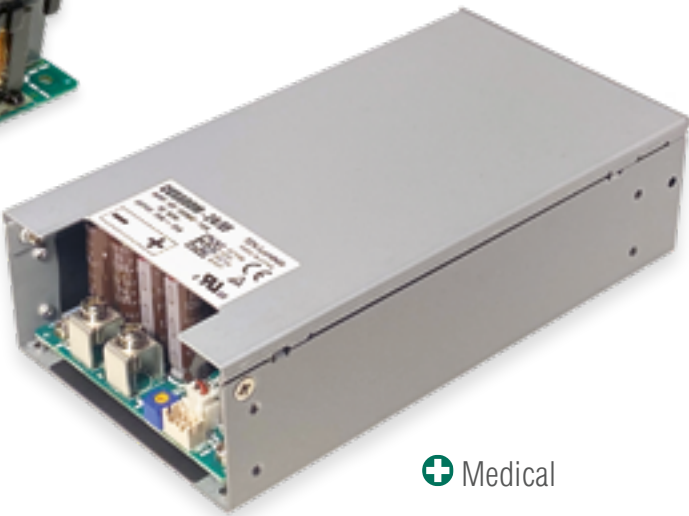
NEW MODEL

# CUS600M

3 x 5" 600W Medical AC-DC Power Supplies




Warranty  
5 years



 Medical

Features				Benefits		
400W (600W Peak) convection cooled				Quiet operation		
600W with forced air				Can utilise system airflow or integrated fan		
Medical certifications (2 x MOPP)				Suitable for B and BF type medical equipment		
Class B conducted and radiated EMI				Easier system EMC compliance		
Suitable for Class I and Class II installations				Flexible utilisation		
Compact 3 x 5 x 1.46" size				Space saving in end equipment		
Enclosure & other options				Versatile application		

Model	Output power	Output voltage	Input voltage	Size	Mechanical format	Cooling
CUS600M	600W	12, 19, 24, 28, 32, 36, 48Vdc	85 – 265Vac	3 x 5"	Open frame, enclosed with end fan	



Product-Website



Datasheet



Product-Video



Complete range

NEW MODEL

# TPS4000

4080W 3-Phase Input Industrial AC-DC Power Supplies



Warranty  
3 years



Features			Benefits	
400/440/480Vac (Nominal) 3 Phase Delta or Wye			Global use	
Fully regulated, wide range voltage adjustment			Versatile application	
Voltage and current programming			Flexible control and adjustment	
-40°C (start up) to +70°C operation			Suitable for rugged environments	
92% typical efficiency			Less energy used	
PMBus™ communication			Remote output programming and monitoring	
Built in ORing FET for parallel operation			Suitable for N + 1 redundancy	

Model	Output power	Output voltage	Input voltage	Cooling
TPS4000	4000 – 4080W	24, 48Vdc	350 – 528Vac	

NEW RANGE

# WMM30

25 to 30W Medical Wall Mount AC-DC Power Supplies



Warranty  
3 years

Medical

Features			Benefits	
Medical safety certifications and immunity			Suitable for medical, clinical and home healthcare use	
Class II input			No earth ground connection needed	
Meets DoE Level VI and EU Tier 2 efficiency, <75mW off-load power consumption			Meets US and EU energy saving legislation	
4kV (2 x MOPP) input to output isolation			Fully isolated for use with B and BF rated equipment	
Alternative connectors and cable assemblies			Flexible system integration	

Model	Output power	Output voltage	Input voltage	Cooling
WMM30	30W	5, 9, 12, 15, 18, 24Vdc	80 – 264Vac	



Product-Website



Datasheet



Product-Video



NEW MODEL

# DTM36-C8

25 to 36W Medical AC-DC External Power Supplies



Warranty  
3 years

Medical

Features			Benefits	
Medical safety certifications and immunity			Suitable for medical, clinical and home healthcare use	
Class II input			No earth ground connection needed	
Meets DoE Level VI and EU Tier 2 efficiency, <75mW off-load power consumption			Meets US and EU energy saving legislation	
4kV (2 x MOPP) input to output isolation			Fully isolated for use with B and BF rated equipment	
Alternative connectors and cable assemblies			Flexible system integration	

Model	Output power	Output voltage	Input voltage	Cooling
DTM36-C8	25 – 36W	5, 9, 12, 13.5, 15, 18, 24, 36, 48Vdc	80 – 264Vac	



Product-Website



Datasheet



Product-Video



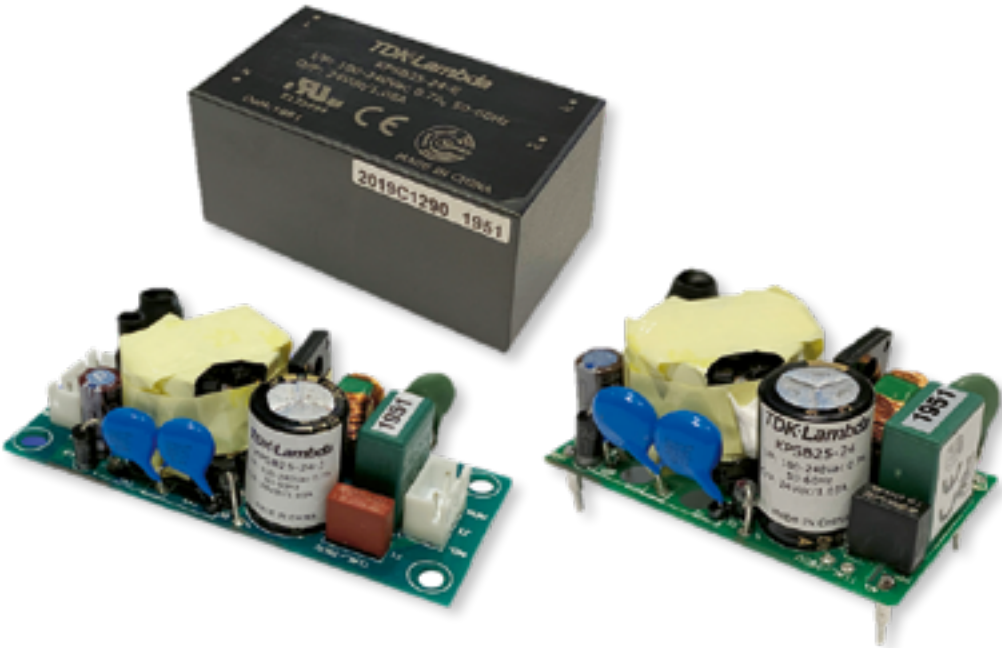
Complete range

NEW RANGE

# KPSB6 + KPSB25 – Series

5 to 25W AC-DC Board Mount Power Supplies

Warranty  
3 years



Features			Benefits	
High efficiency, up to 87%			Lower operating costs, improved thermal performance	
Class B EMI			No external filter components required	
Low no load power consumption			Energy saving	
Wide operating temperature			Operation in harsh environments	
Class II, wide range input (90 – 264Vac)			Global application, no earth required	

Model	Output power	Output voltage	Input voltage	Cooling
KPSB6	6W	3.3, 5, 9, 12, 15, 24Vdc	90 – 264Vac	↓
KPSB25	25W	5, 12, 15, 24, 36, 48Vdc	90 – 264Vac	↓



Product-Website



Datasheet



Product-Video



Complete range

NEW MODELS

# GENESYS™

1kW 1U Half Rack or Full Rack Mount power supply  
1.5kW 1U Half Rack Mount power supply



Warranty  
5 years

GENESYS™ series providing highest power density and lightest weight and feature rich is extended by new models and new options.

### Features

- Arbitrary waveform generation and storage
- Programmable slew rate control
- Constant voltage, constant current and constant power limit operation
- Internal resistance programming
- Built-In LAN, USB, RS-232/RS-485 and isolated analogue interfaces
- Optional EtherCAT, Modbus-TCP and IEEE488 interfaces
- Blank front panel option

Power	Output voltage ranges	Output current ranges	Height / Package	Cooling
GH 1kW	0 – 10 to 0 – 600V	0 – 100 to 0 – 1.7A	1U, ½ 19"	
GH 1.5kW	0 – 10 to 0 – 600V	0 – 150 to 0 – 2.6A	1U, ½ 19"	



Product-Website



Datasheet



Product-Video



Complete range

NEW MODEL

i7A

750W, 18 to 60V Input non-isolated Step Down DC-DC Converter

Warranty  
3 years



Features	Benefits
Up to 750W in a 1/16th brick footprint	High power density, less board area needed
High efficiency – up to 98.5%	Longer battery life / less power consumed
Wide 3.3 to 18V or 3.3 to 24V output adjustment	One part supports multiple system voltages
18 to 32V or 18 to 60V input ranges	Can operate from different DC source voltages including batteries
Low component count with minimal external components	Low cost
Minimal derating requirements in low airflow environments	Easy to cool in end system

Model	Output power	Output voltage	Input voltage	Package	Cooling
i7A4W	33A	3.3 – 24Vdc	18 – 60Vdc	1/16 Brick wide	↓↻
i7A	45A	3.3 – 18Vdc	18 – 32Vdc	1/16 Brick wide	↓↻



Product-Website



Datasheet



Product-Video



Complete range

NEW MODELS

# PXD-M 30

30W Medical and Industrial DC-DC Converters



Warranty  
5 years

Medical

Features			Benefits	
Wide 4:1 Input range			Supports dual 12/24V or 24/48 system voltages	
Compact 2" x 1" industry package			Less board area needed	
Certified to IEC 60601-1 and IEC 62368-1			Suitable for medical and industrial applications	
2 x MOPP Isolation			High input to output isolation	
Low no load power consumption			Longer battery life	
Model	Output power	Output voltage	Input voltage	Cooling
PXD-M30	30W	5 – 24V, $\pm 5 - 15V$	9 – 36V / 18 – 75V	

[Product-Website](#)

[Datasheet](#)

[Product-Video](#)

NEW MODELS

# PXG-M 15/20

15 to 20W Medical and Industrial DC-DC Converter



Warranty  
5 years

Medical

Features			Benefits	
Wide 4:1 Input range			Supports dual 12/24V or 24/48 system voltages	
Compact 1.6" x 1" industry package			Less board area needed	
Certified to IEC 60601-1 and IEC 62368-1			Suitable for medical and industrial applications	
2 x MOPP Isolation			High input to output isolation	
Low no load power consumption			Longer battery life	
Model	Output power	Output voltage	Input voltage	Cooling
PXG-M	15, 20W	5, 12, 24, $\pm 5$ , $\pm 12$ , $\pm 15$	9 – 36V / 18 – 75V	



Product-Website



Datasheet



Product-Video

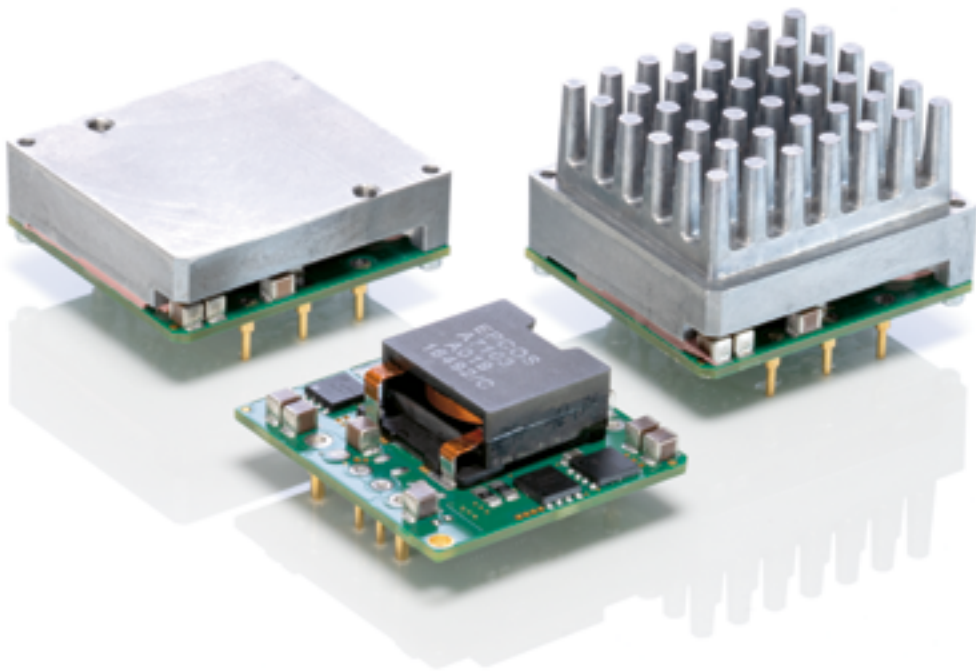


NEW MODEL

# i7C

300W, 9 – 53V Input, Buck-Boost non-isolated DC-DC Converters

Warranty  
3 years



Features			Benefits		
Up to 300W in a 1/16th brick pin-out			High power density, less board area needed		
High efficiency – up to 97%			Longer battery life / low power consumed		
Wide 5 to 28V or 9.6 to 48V output adjustment			One part supports multiple system voltages		
Wide 9 to 53Vdc input range			Can operate from different DC source voltages		
Low component count with minimal external components			Low cost		
Low airflow with minimal derating requirements			Easy to cool in end system		

Model	Output power	Output voltage	Input voltage	Package	Cooling
i7C4W	12.5A	5.0 – 28Vdc	9 – 53Vdc	1/16 Brick wide	↓ ↻
i7C4W	8A	9.6 – 48Vdc	9 – 53Vdc	1/16 Brick wide	↓ ↻

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[Datasheet](#)

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[Complete range](#)

NEW RANGE

# DDA

250 to 500W Wide  
range, non-isolated  
DC-DC Converters



Warranty  
3 years

Features				Benefits	
250W single output, 325W and 500W dual output power levels				High power density	
High efficiency up to 95%				Less waste heat	
Wide input range – 9 up to 53V				One part for multiple applications	
Wide 3.3 to 24V output adjustment				Accommodates non-standard voltages	
Narrow 36.5mm width				More space available for other DIN Rail devices	
Convection cooled				Easy to cool in end system	

Model	Output power	Output current range	Output voltage		Input voltage	Cooling
DDA250	250W / NA	20A / NA	1) 12V / 3.3 to 15V	2) NA / NA	9 to 53V (Turn on at 10V or greater)	↓ ↻
DDA325	250W / 75W	14A / 8A	1) 12V / 3.3 to 24V	2) –12V / –3.3 to –24V	9 to 40V (Turn on at 10V or greater)	↓ ↻
DDA500	250W / 250W	20A / 20A	1) 12V / 3.3 to 15V	2) 5V / 3.3 to 15V	9 to 53V (Turn on at 10V or greater)	↓ ↻



Product-Website



Datasheet



Product-Video



Complete range

NEW MODEL

# PH600A280-24

600W High Density Power Modules



Warranty  
5 years

Features			Benefits	
Wide range 200 to 425Vdc input			Suitable for HVDC applications	
Baseplate cooled			Can be conduction or convection cooled (with an optional heatsink)	
–40 to 100°C baseplate temperature			Operates in harsh environments	
Certified to IEC/EN62477-1 (OVC III)			No external transformer needed	
Up to 93% efficient			Easier to cool in the end system	

Model	Output power	Output voltage	Input voltage	Cooling
PH600A280-24	600W	24Vdc	200 – 425Vdc	



Product-Website



Datasheet



Product-Video



Complete range

NEW MODEL

# EZA

## 11,000W Bi-Directional DC-DC Converter



Warranty  
5 years

Features			Benefits	
1U rackmount			Utilises less rack space	
Battery Side 240Vdc			Suitable for 150 – 300V batteries	
Grid Side 320Vdc			Operates on HVDC systems	
High efficiency 95%			Minimises heat in system	
Model	Output power	Low voltage DC (Battery Side)	High voltage DC (Grid Side)	Cooling
EZA-11kW	± 11.000W	150 – 300Vdc (240V Nominal)	240 – 400Vdc (320V Nominal)	

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



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