

TDK-Lambda Healthcare Products



Company Overview

TDK-Lambda is one of the oldest and most trusted manufacturers of high quality medical power supply solutions. We offer a broad product line with over 6,000 models to choose from. Backed by industry-leading warranties, our motivation is our customer's complete satisfaction.



Product Offering & Attributes

- ◆ Wide range of products
- ◆ Standard and modified power solutions
- ◆ AC-DC power supplies + line filters + DC-DC converters
- ◆ Products suitable for B & BF equipment
- ◆ Medical approvals as standard
- ◆ Long-life products
- ◆ Low cost of ownership
- ◆ Medical products manufactured in ISO13485 approved factories

Organization

- ◆ Founded in 1948; offering long term financial stability
- ◆ Worldwide recognition as a leader in high quality
- ◆ Outstanding customer support
- ◆ International organization with local presence & support
- ◆ Local design capability
- ◆ Experts in medical power supply solutions
- ◆ Preferred supplier for Tier 1 health care companies
- ◆ Local inventory / local buffer

Healthcare Sub-Segments

Medical



- ◆ Ventilator
- ◆ Dialysis Equipment
- ◆ Ophthalmology Devices
- ◆ Patient Monitoring
- ◆ Patient Therapy
- ◆ Surgical & Ablation Systems
- ◆ Medical Beds
- ◆ Surgical Lasers
- ◆ Neonatal Care
- ◆ Electrocardiographs
- ◆ Anesthesia Devices

Life Sciences



- ◆ Microbiology
- ◆ Electron Microscopes
- ◆ Chemical Analysis Equipment
- ◆ Lab Process Automation
- ◆ Immunoassay Systems
- ◆ Mass Analyzers
- ◆ In-vitro Diagnostics
- ◆ Sterilization
- ◆ Clinical Chemistry
- ◆ Centrifuges
- ◆ PCRs
- ◆ Osmometers

Imaging



- ◆ X-Ray Machines
- ◆ Ultrasound Scanners
- ◆ Nuclear Medicine
- ◆ Positron Emission Tomography (PET)
- ◆ Computed Tomography (CT) Scan
- ◆ Magnetic Resonance Imaging (MRI)

Dental



- ◆ CAD/CAM Systems
- ◆ Oral Care Equipment
- ◆ X-Ray Machines
- ◆ Gamma Imaging Systems
- ◆ Digital Radiography

AC/DC



Product Series	Description	Output Power (W)	Outputs	Output Voltages (VDC)	Dimensions (Inches)	Protection Class	B / BF Compliant	Cooling
KMS15	Enclosed - PCB Mount	9.9 - 15	1	3.3, 5, 9, 12, 15, 24	2.52 x 1.79 x 0.92"	Class II	N/A	Convection
KMD15	Enclosed - PCB Mount	15	2	±5, 5/12, 5/24, ±12, ±15	2.52 x 1.79 x 0.92"	Class II	N/A	Convection
KMT15	Enclosed - PCB Mount	15	3	5 ±12, 5 ±15	2.52 x 1.79 x 0.92"	Class II	N/A	Convection
PXG-M15	Enclosed - PCB Mount	15	1	5, 12, 15, 24	1.6 x 1 x 0.4"	-	-	Convection
PXG-M15	Enclosed - PCB Mount	15	2	±5, ±12, ±15	1.6 x 1 x 0.4"	-	-	Convection
PXG-M20	Enclosed - PCB Mount	20	1	5, 12, 15, 24	1.6 x 1 x 0.4"	-	-	Convection
PXG-M20	Enclosed - PCB Mount	20	2	±5, ±12, ±15	1.6 x 1 x 0.4"	-	-	Convection
PXD-M30	Enclosed - PCB Mount	30	1	5, 12, 15, 24	2 x 1 x 0.4"	-	-	Convection
PXD-M30	Enclosed - PCB Mount	30	2	±5, ±12, ±15	2 x 1 x 0.4"	-	-	Convection
KMS40	Enclosed - PCB Mount	26.4 - 40	1	3.3, 5, 9, 12, 15, 24	3.5 x 2.5 x 1.06"	Class II	N/A	Convection
KMD40	Enclosed - PCB Mount	40	2	±5, 5/12, 5/24, ±12, ±15	3.5 x 2.5 x 1.06"	Class II	N/A	Convection
KMT40	Enclosed - PCB Mount	40	3	5 ±12, 5 ±15	3.5 x 2.5 x 1.06"	Class II	N/A	Convection
KMS15A	Enclosed - PCB Mount	15	1	5, 9, 12, 15, 24	2.07 x 1.08 x 0.93"	Class II	N/A	Convection
KMS30A	Enclosed - PCB Mount	25 - 30	1	5, 12, 15, 24	2.52 x 1.77 x 0.93"	Class II	N/A	Convection
KMS60A	Enclosed - PCB Mount	51 - 60	1	5.1, 9, 12, 15, 24	3.5 x 2.5 x 1.06"	Class II	N/A	Convection
CUT35	Open-frame	35	2, 3	5, ±12, ±15, 24, 30	2 x 4 x 1.1"	Class I	B	Convection
CUS30M	Open-frame	30	1	12, 24, 48	2 x 3 x 0.95"	Class I, Class II	BF	Convection
CUS60M	Open-frame	60	1	5, 12, 15, 18, 24, 48	2 x 3 x 1.05"	Class I, Class II	BF	Convection
CUS100ME	Open-frame	100	1	12, 15, 18, 24, 28, 36, 48	2 x 4 x 1.24"	Class I, Class II	B/BF	Convection / Forced air
CUS150M	Open-frame	120 - 150	1	12, 15, 18, 24, 28, 36, 48	2 x 4 x 1.24"	Class I, Class II	BF	Convection / Forced air
CUS200M	Open-frame	200 - 250	1	12, 18, 24, 36, 48	3 x 5 x 1.34"	Class I	BF	Convection / Forced air
CUS350M	U-Channel	350 - 420	1	12, 18, 24, 36, 48	7.5 x 3.4 x 1.6"	Class I	BF	Convection / Forced air
CUS400M	Open-frame	400	1	12, 15, 19, 24, 28, 36, 48	3 x 5 x 1.55"	Class I, Class II	B/BF	Convection/Forced air
CUS600M	Open-frame	600	1	12, 19, 24, 28, 32, 36, 48	3 x 5 x 1.46"	Class I, Class II	B/BF	Convection / Forced air
CUS1500M	Enclosed - End fan	1500	1	12, 15, 24, 36, 48	10.28 x 5 x 2.48"	Class I	BF	Forced air
NV175	Open-frame (configurable)	175 - 180	1 - 5	1.8, 2.7, ±3.3, ±5, ±12, ±15, ±24	3 x 5 x 1.25"	Class I	B	Forced air
NVM175	Open-frame (configurable)	180	1	12, 24	3 x 5 x 1.25"	Class I	BF	Forced air
NV175-M	Open-frame (configurable)	180	1 - 3	±3.3, ±5, ±12, ±15, ±24	3 x 5 x 1.25"	Class I	B	Forced air
EFE300M	Open-frame	300	1	12, 24, 28, 48, 50	3 x 6 x 1.34"	Class I	B	Forced air
NV350	Enclosed - End fan (configurable)	350 - 660	1 - 6	3.3 - 64	10.8 x 3.75 x 1.6"	Class I	B	Forced air
EFE400M	Open-frame	400	1	12, 24, 48	3.5 x 6.5" x 1.34"	Class I	B	Forced air
XMS500(N)	Open-frame	500	1	12, 24, 36, 48	7.1 x 4 x 1.46"	Class I / Class II	BF	Forced air
XMS500(S)	U-Channel	500	1	12, 24, 36, 48	7.1 x 4.2 x 1.56"	Class I / Class II	BF	Forced air
XMS500(TF)	Enclosed - Top fan	500	1	12, 24, 36, 48	7.1 x 4.2 x 2.65"	Class I / Class II	BF	Forced air
CM4	Open-frame (configurable)	425 - 600	1 - 4	1.5 - 232	4 x 7 x 1.61"	Class I	B	Conduction / Forced air
Vega	Enclosed - End fan (configurable)	450 - 900	1 - 10	0.5 - 62	10.6 x 5 x 2.5"	Class I	B	Forced air
NV700	Enclosed - End fan (configurable)	700 - 1150	1 - 8	3.2 - 64	10.8 x 4.92 x 1.6"	Class I	B	Forced air
Alpha 1000	Enclosed - End fan (configurable)	1000	1 - 14	1.8 - 48	11 x 7 x 2.5"	Class I	B	Forced air
RVS1000B/ME	Enclosed - End fan	1000	1	12, 15, 24, 36, 48	7.8 x 5 x 2.48"	Class I	BF	Forced air
QM4	Enclosed - End fan (configurable)	550 - 650	1 - 10	2.8 - 105.6	10.6 x 4.3 x 2.5"	Class I	BF	Forced air
QM5	Enclosed - End fan (configurable)	700 - 1200	1 - 12	2.8 - 105.6	10.6 x 5 x 2.5"	Class I	BF	Forced air
QM7	Enclosed - End fan (configurable)	1200 - 1500	1 - 16	2.8 - 105.6	10.6 x 6.9 x 2.5"	Class I	BF	Forced air
QM8	Enclosed - End fan (configurable)	1200 - 1500	1 - 18	2.8 - 105.6	10.6 x 7.9 x 2.5"	Class I	BF	Forced air
QM8B	Enclosed - End fan (configurable)	1200 - 2000	1 - 18	2.8 - 105.6	10.6 x 7.9 x 2.5"	Class I	BF	Forced air
RWS1500B/ME	Enclosed - End fan	1500	1	12, 15, 24, 36, 48	10.28 x 5 x 2.48"	Class I	BF	Forced air

External / Desktop Power Supplies



Product Series	Description	Output Power (W)	Outputs	Output Voltages (VDC)	Dimensions (Inches)	Protection Class	B / BF Compliant	Cooling
DTM65-C8	External adapter	40-65	1	5, 12, 15, 19, 24, 28, 48	2.36 x 4.17 x 1.22"	Class II	NA	Convection
DTM65-D	External adapter	40-65	1	5, 12, 15, 18, 24, 36, 48	2.72 x 5.2 x 1.57"	Class I	BF	Convection
DTM110-C	External adapter	90-110	1	12, 13.5, 15, 19, 20, 24	2.55 x 6.7 x 1.51"	Class I	B	Convection
DTM110-C8	External adapter	105-110	1	12, 15, 19, 24, 28, 36, 48	2.48 x 5.5 x 1.29"	Class II	NA	Convection
DTM165-C	External adapter	160-165	1	12, 15, 19, 24, 28, 36, 48	3.35 x 6.7 x 1.73"	Class I	B	Convection
DTM250-D	External adapter	250	1	12, 19, 24, 28, 36, 48, 54	3.54 x 7.87 x 1.77"	Class I	BF	Convection
DTM300-D	External adapter	300	1	12, 19, 24, 28, 48, 54	4.4 x 8.75 x 1.77"	Class I / Class II	BF	Convection

DC/DC



Product Series	Description	Output Power (W)	Outputs	Output Voltages (VDC)	Dimensions (Inches)	Protection Class	B / BF Compliant	Cooling
PXC-M03 (S)	Enclosed - PCB Mount	3	1	3.3, 5, 12, 15, 24	1.25 x 0.8 x 0.4"	-	-	Convection
PXC-M03 (D)	Enclosed - PCB Mount	3	2	±5, ±12, ±15	1.25 x 0.8 x 0.4"	-	-	Convection
PXC-M06 (S)	Enclosed - PCB Mount	6	1	3.3, 5, 12, 15, 24	1.25 x 0.8 x 0.4"	-	-	Convection
PXC-M06 (D)	Enclosed - PCB Mount	6	2	±5, ±12, ±15	1.25 x 0.8 x 0.4"	-	-	Convection
PXC-M10 (S)	Enclosed - PCB Mount	10	1	3.3, 5, 12, 15, 24	1.25 x 0.8 x 0.4"	-	-	Convection
PXC-M10 (D)	Enclosed - PCB Mount	10	2	±5, ±12, ±15	1.25 x 0.8 x 0.4"	-	-	Convection
PXG-M15 (S)	Enclosed - PCB Mount	15	1	5, 12, 15, 24	1.6 x 1 x 0.4"	-	-	Convection
PXG-M15 (D)	Enclosed - PCB Mount	15	2	±5, ±12, ±15	1.6 x 1 x 0.4"	-	-	Convection
PXG-M20 (S)	Enclosed - PCB Mount	20	1	5, 12, 15, 24	1.6 x 1 x 0.4"	-	-	Convection
PXG-M20 (D)	Enclosed - PCB Mount	20	2	±5, ±12, ±15	1.6 x 1 x 0.4"	-	-	Convection
PXD-M30 (S)	Enclosed - PCB Mount	30	1	5, 12, 15, 24	2 x 1 x 0.4"	-	-	Convection
PXD-M30 (D)	Enclosed - PCB Mount	30	2	±5, ±12, ±15	2 x 1 x 0.4"	-	-	Convection

Filters



Product Series	Description	Input (VAC)	Rated Current (A)	Max Leakage current (µA) @250VAC, 60 Hz	Cooling
RSAL-20	Chassis Mount	250	0.5-6	10	Convection
RSEL-20	Chassis Mount	250	0.5-6	10	Convection
RSAN-20	Chassis Mount, Din rail optional	250	3-30	10	Convection
RSEN-20	Chassis Mount, Din rail optional	250	3-30	10	Convection
RSHN-20	Chassis Mount, Din rail optional	250	3-30	100	Convection
RSMN-20	Chassis Mount, Din rail optional	250	3-30	10	Convection

Want Engineering Support?

- ◆ Please call 1-800-LAMBDA-4 (1-800-526-2324) to speak to our inside technical support team, or email powersolutions@us.tdk-lambda.com
- ◆ TDK-Lambda's Field Application Engineers are available for in-depth advice at your facility. Please contact your local TDK-Lambda salesperson to schedule a visit.



AC-DC Power Supplies



KM Series

15-40W Medical AC-DC PCB-Mount Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Wide Range Input
- ◆ Small Size and Lightweight
- ◆ PC Board Mountable
- ◆ Class II (No ground needed)
- ◆ High Efficiency



KMS-A Series

15-60W Medical AC-DC PCB-Mount Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Class II (No ground needed)
- ◆ Wide Temperature Range (-40 to +80°C)
- ◆ Low Off-load Power Draw
- ◆ Smaller Size than KMS
- ◆ High Efficiency



CUT35 Series

35W Medical 2" x 4" AC-DC Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 3kVAC Input - Output Isolation
- ◆ 2 or 3 Outputs
- ◆ Output 1 Isolated from other Outputs
- ◆ 1.06" Low profile, Industry Standard Footprint
- ◆ Global Safety Agency Compliance



CUS30M & CUS60M Series

30-60W Medical 2" x 3" AC-DC Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Suitable for BF Rated Equipment
- ◆ Class I and Class II Operation
- ◆ High Efficiency



CUS100ME Series

100W Medical 2" x 4" AC-DC Power Supplies

- ◆ Up to 100W Utilizing Convection or Conduction Cooling
- ◆ Operation in Ambient Temperatures of up to 85°C
- ◆ Medical Certifications (2 x MOPP)
- ◆ Suitable for B and BF Type Medical Equipment
- ◆ Class B Conducted and Radiated EMI
- ◆ Suitable for Class I and Class II Installations
- ◆ Enclosure & Cooling Options



CUS150M Series

150W Medical 2" x 4" AC-DC Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ 150W Forced air, 120W Convection open frame, 150W Convection U-chassis
- ◆ Operation up to 85°C with customer airflow
- ◆ Class B Conducted and Radiated EMI
- ◆ Long Capacitor Lifetimes
- ◆ Suitable for Class I and Class II Installations
- ◆ Compact 2 x 4 x 1.24" Footprint
- ◆ Suitable for BF Rated Equipment



AC-DC Power Supplies



CUS200M Series

200 to 250W Medical 3" x 5" Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ High Efficiency, up to 94%
- ◆ 200W Convection Cooled Rating
- ◆ Suitable for BF Rated Equipment
- ◆ 5V Standby Output



CUS350M Series

350W/420W Medical Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ High Efficiency, up to 94%
- ◆ 1.6" High
- ◆ 350W Convection Cooled, 420W Forced Air Rating
- ◆ Suitable for BF Rated Equipment
- ◆ 5V Standby & 12V Fan Output



CUS400M Series

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

- ◆ 400W with Forced Air, 250W (400W peak) Convection / Conduction Cooled
- ◆ Medical Certifications (2 x MOPP)
- ◆ Suitable for B and BF Type Medical Equipment
- ◆ Class B Conducted and Radiated EMI
- ◆ Suitable for Class I and Class II Installations
- ◆ Compact 3 x 5 x 1.55" Size
- ◆ Enclosure & Signal Options



CUS600M Series

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

- ◆ 600W with Forced Air, 400W (600W Peak) Convection Cooled
- ◆ Medical Certifications (2 x MOPP)
- ◆ Suitable for B and BF Type Medical Equipment
- ◆ Class B Conducted and Radiated EMI
- ◆ Suitable for Class I and Class II Installations
- ◆ Compact 3 x 5 x 1.46" Size
- ◆ Enclosure & Other Options



CUS1500M Series

1500W Medical Single Output Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Low Audible Noise (<45dBA)
- ◆ Compact Size
- ◆ Suitable for BF Rated Equipment
- ◆ 7 Year Warranty



AC-DC Power Supplies



NVM175 Series

180W Medical 3" x 5" Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Suitable for BF Rated Equipment
- ◆ Reinforced Input to Output Isolation for IEC60601
- ◆ Very Low Earth Leakage and Class B EMC
- ◆ Standby Supply and Remote On/Off
- ◆ High Efficiency (90%) & High Power Density (9.3 W/in³)
- ◆ 1U Form Factor
- ◆ Dual Fusing



NV175 & NV175-M Series

175-200W Medical 3" x 5" Power Supplies

- ◆ Universal Input (90 - 264VAC)
- ◆ Active Power Factor Correction
- ◆ No Minimum Loads
- ◆ Up to 90% Efficient
- ◆ 1-3 Outputs (NV175-M) ; 1-5 Outputs (NV175)
- ◆ 2 x MOPP Primary - Secondary (NV175-M)
- ◆ 1 x MOPP Primary - Secondary (NV175)
- ◆ 4kVAC Input - Output Isolation (NV175-M)
- ◆ 3kVAC Input - Output Isolation (NV175)



NV350/700 Series

350W-1150W Medical Modular Power Supplies

- ◆ 2 x MOPP Primary - Secondary (C, CC, CM modules only)
- ◆ 4kVAC Input - Output Isolation (C, CC, CM modules only)
- ◆ 1U Form Factor
- ◆ Up to 90% Efficient
- ◆ Active Power Factor Correction
- ◆ Universal Input (90 - 264VAC)
- ◆ Up to 8 Outputs (6 for the NV350)
- ◆ No Minimum Loads
- ◆ Peak Power Rating of up to 1450W



EFE300M & 400M Series

300-400W Medical Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Suitable for BF Rated Equipment
- ◆ ORing FET for Parallel Operation
- ◆ Universal Input (90 - 264VAC)
- ◆ Peak Loading (10s)
- ◆ 1U Form Factor
- ◆ Full Digital Control
- ◆ High Efficiency
- ◆ Low Profile



Vega Series

450-900W Medical, Multiple Output Modular Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ 1-10 Wide Range Outputs with Adjustment
- ◆ Forward/Reverse/Low Noise/System Air Cooling
- ◆ Output Voltages from 0.5V - 62V
- ◆ 48VDC Input Option
- ◆ Medical Approval Options
- ◆ MIL-STD-810 Shock and Vibration
- ◆ PFC Compliant to EN61000-3-2
- ◆ Safety Agency Approvals EN, cULus, BSI, CE



XMS500 Series

500W Medical, Configurable, Class I or Class II AC-DC Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ High Efficiency
- ◆ Suitable for BF Rated Equipment
- ◆ Class I / II Curve B EMC
- ◆ 1U Form Factor
- ◆ Low Airflow Requirement
- ◆ 5 Year Warranty



AC-DC Power Supplies



QM4/QM5/QM7/QM8 Series

550 - 2000W Medical, Multiple Output Modular Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ High Efficiency
- ◆ Low Speed, Low Audible Noise Fans
- ◆ Up to 18 Outputs
- ◆ Industry Leading Flexibility
- ◆ 7 Year Warranty
- ◆ Suitable for BF Rated Equipment
- ◆ PMBus™ Communication



Alpha1000 Series

1000W Medical, Multiple Output Modular Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 3kVAC Input - Output Isolation
- ◆ Universal AC Input
- ◆ Power Factor Corrected
- ◆ Capable of up to 14 Fully Regulated and Independent Outputs
- ◆ Output Voltages from 1.8V - 48V
- ◆ Low Leakage Options
- ◆ International Safety Agency Certification
- ◆ Fast-on Tab Connections
- ◆ No Minimum Load
- ◆ Wide Range Output Modules



CM4 Series

600W Conduction Cooled Modular Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Conduction / Forced Air Cooled
- ◆ Wide Output Adjustment Range
- ◆ Compact 4" x 7" Footprint
- ◆ MIL-STD-461F, -704F Immunity
- ◆ Five Year Warranty



RWS-1000/1500 - B/ME Series

1000-1500W Medical Single Output Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Cost Effective
- ◆ 7 Year Warranty
- ◆ Suitable for BF Rated Equipment



External / Desktop Power Supplies



DTM65-D Series

40-65W Medical AC-DC External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Meets DOE Level VI Efficiency
- ◆ CEC, EISA⁽¹⁾ & ErP Stage 2 Compliant
- ◆ Wide Range AC Input
- ◆ 85% Efficient, >87% Average (12V Models & Above)
- ◆ Suitable for BF Rated Equipment



DTM65-C8 Series

40W to 65W Medical Class II AC-DC External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Meets DOE Level VI Efficiency
- ◆ 60601-1 & 60601-1-11 Medical Certifications
- ◆ Class II Input
- ◆ < 0.21W Off-load Power Draw



DTM110-C & DTM110-C8 Series

90-110W Medical AC-DC External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ CEC, EISA & ErP Stage 2 Compliant
- ◆ Wide Range AC Input
- ◆ > 87% Average Efficiency



DTM165-C Series

160W to 165W Medical AC-DC External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ CEC, ErP and EISA⁽¹⁾ Level V Compliant Models
- ◆ Wide Range AC Input
- ◆ > 87% Average Efficiency



DTM250-D Series

250W Medical AC-DC External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Meets DOE Level VI Efficiency
- ◆ < 0.15W Off -load Power Draw
- ◆ Meets IEC60601-1-2 Ed4; 2014
- ◆ Suitable for BF Rated Equipment



DTM300-D Series

300W Medical Class I and II External Power Supplies

- ◆ 2 x MOPP Primary - Secondary
- ◆ 4kVAC Input - Output Isolation
- ◆ Meets DOE Level VI Efficiency
- ◆ Class I & II Inputs
- ◆ < 0.5W Off-load Power Draw
- ◆ Meets IEC60601-1-2 Ed4; 2014
- ◆ Suitable for BF Rated Equipment



DC-DC Converters



PXC-M03 Series

3W Medical DC-DC Converters

- ◆ 2 x MOPP Primary - Secondary
- ◆ 5kVAC Input - Output Isolation
- ◆ Industry Standard DIP-24 Package
- ◆ 9-36V or 18-75VDC Input
- ◆ 2.5uA Touch Current
- ◆ Low Off-Load Power Draw



PXC-M06 Series

6W Medical DC-DC Converters

- ◆ 2 x MOPP Primary - Secondary
- ◆ 5kVAC Input - Output Isolation
- ◆ Industry Standard DIP-24 Package
- ◆ 9-36V or 18-75VDC Input
- ◆ 2.5uA Touch Current
- ◆ Low Off-Load Power Draw



PXC-M10 Series

10W Medical DC-DC Converters

- ◆ 2 x MOPP Primary - Secondary
- ◆ 5kVAC Input - Output Isolation
- ◆ Industry Standard DIP-24 Package
- ◆ 9-36V or 18-75VDC Input
- ◆ 2.5uA Touch Current
- ◆ Low Off-Load Power Draw



PXG-M15/20 Series

10W Medical DC-DC Converters

- ◆ Wide 4:1 Input Range
- ◆ 1.6" x 1" Industry Package
- ◆ IEC 60601-1 and IEC 62368-1
- ◆ 2 x MOPP Primary - Secondary
- ◆ Low No Load Power Consumption
- ◆ 2.5uA Touch Current



PXD-M30 Series

30W Medical DC-DC Converters

- ◆ Wide 4:1 Input Range
- ◆ 2" x 1" Industry Package
- ◆ IEC 60601-1 and IEC 62368-1
- ◆ 2 x MOPP Primary - Secondary
- ◆ Low No Load Power Consumption
- ◆ 2.5uA Touch Current



EMC/EMI Filters

R Series Filter Selection Guide

Filter Series	Rated Input Voltage	Current Rating	Screw Terminations	"Fast on" Terminals	Wire Lead Terminations	Chassis Mount	Din Rail Mount (Models up to 30A)	Low Leakage Current	High Voltage Pulse Attenuation	Two Stage (Better Performance)	Other
RSAL	250V 1ph	0.5 to 6A	-	A Suffix	W Suffix	Y	-	L Suffix	Y	-	-
RSEL	250V 1ph	0.5 to 6A	-	A Suffix	W Suffix	Y	-	L Suffix	-	-	Lower Cost than RSAL
RSAN	250V 1ph	3A to 30A	Y	-	-	Y	D Suffix	L Suffix	Y	-	-
RSMN	250V 1ph	3A to 30A	Y	-	-	Y	D Suffix	L Suffix	Y	Y	-
RSEN	250V 1ph	3A to 30A	Y	-	-	Y	D Suffix	L Suffix	-	-	Lower Cost than RSHN
RSHN	250V 1ph	3A to 30A	Y	-	-	Y	D Suffix	L Suffix	-	Y	-



RSAL Series

0.5A to 6A, 250VAC EMI Filters

- ◆ High Voltage Pulse Attenuation
- ◆ Lug or Wire Terminations
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



RSEL Series

0.5A to 6A, 250VAC EMI Filters

- ◆ Lower cost compared to the RSAL Series
- ◆ Lug or Wire Terminations
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



RSAN Series

3A to 30A, 250VAC EMI Filters

- ◆ High Voltage Pulse Attenuation
- ◆ DIN Rail Mount Option
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



RSEN Series

3A to 30A, 250VAC EMI Filters

- ◆ Lower cost compared to the RSHN Series
- ◆ DIN Rail Mount Option
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



RSHN Series

3A to 30A, 250VAC EMI Filters

- ◆ Two Stage Filter for Better Performance
- ◆ DIN Rail Mount Option
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



RSMN Series

3A to 30A, 250VAC EMI Filters

- ◆ High Voltage Pulse Attenuation
- ◆ Two Stage Filter for Better Performance
- ◆ DIN Rail Mount Option
- ◆ Low Earth Leakage Current Option
- ◆ Conforms to UL, CSA and EN Safety Agency Certifications



Value Add



Capabilities

- ◆ Modified Standard Power Supply
- ◆ Value-Added Solutions
- ◆ Power System Design

Features

- ◆ Low risk, using standard products as building blocks
- ◆ Low development cost
- ◆ Fast turnaround from design to production
- ◆ Proven DVT processes
- ◆ Compliance Testing (Safety, EMC, Environment, etc...)
- ◆ Low cost manufacturing in Asia

Modified Standard

- ◆ Modifications (electrical or mechanical) to a Standard / Existing TDK-Lambda product.
- ◆ The product retains the inherent reliability of the product from which it was modified.
- ◆ Examples include Input/Output connector, signal, output voltage, color changes, conformal coating, firmware change, reduced leakage current, addition of test points or indicator lights, etc.



i6A4W Series



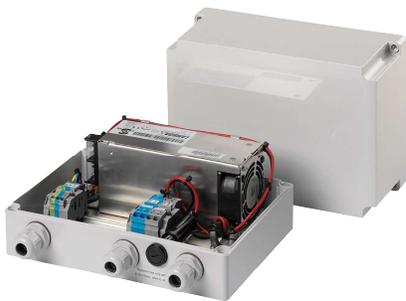
CUS100ME Series



QM4 Series

Value-Added

- ◆ A customized power solution adding enhanced circuitry or packaging around a Standard/ Existing TDK-Lambda Power Supply to meet customer's specifications.
- ◆ Any TDK-Lambda supply may be used as a starting point and these customized solutions also retain the proven reliability of the product from which it was modified.
- ◆ Examples include custom racks or enclosures, communications/control, ruggedization, special wire harnesses, switches, fuses, fans, heat sinks, and other additional functionality to a standard product.



POWERING CRITICAL APPLICATIONS!



