Product Overview

AC-DC Chassis mount – Single output

	LS	GUS	GWS	CUS-M NEW Models	HWS-A/HD/P/ME/G	RWS-B/ME
						
Cooling						
Output power	25 – 200W	350 – 1000W	250, 500W	30 – 2000W	15 – 3000W	50 – 1500W
Main features	Cost optimized	up to 95.5% efficiency; 1U hight compact; OVCIII	ErP compliant; Class C harmonics; (IEC 61000-3-2); > 25% Load	up to 96% efficiency; low profile; low leakage current; many case-styles	HD: harsh environment; P: peak power for 5sec; ME: medical; very high reliability	Compact size; 10-year +e-cap; lifetime
Warranty	5 years	3 years	5 years	3, 5, 7 years	Leading warranty *	7 years

AC-DC Chassis mount – Multiple output

	ZWQ	CUT NEW Models
		
Cooling		
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				
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
						
Cooling						
Output power	10 – 100W	15 – 480W	120 – 480W	120, 240, 480, 960W	120, 240, 480, 960W	2x20A / 1x40A
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

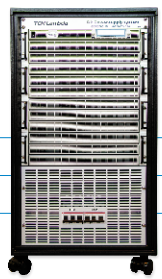
AC-DC Desktop

	DT/DTM	WMM30
		
Cooling		
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	
Output power	750 – 495000W
Main features	750W in ½ 1U rack, up to 90kW in a turnkey 20U cabinet; 0 – 1500V, 0 – 4500A (higher ratings available); CV, CC, CP, CR-operation mode; arbitrary waveform; multiple interfaces; power sink capability; high speed dynamic and blank panel option
Warranty	5 years

Convection Air Flow Fan Baseplate Liquid Regenerative Medical

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GXE600	EVS	RFE	TPS NEW Models	TPF12500 NEW	CPFE/FI	APL6000 NEW	ZWS-C/RC/BAF/BP
							
600W	300, 600W	1000, 1600, 2500W	3000 – 4500W	12500W	720 – 1000W	6000W	10 – 300W
Digital (RS-485) and analogue programming; CV, CC mode; up to 95% efficiency	Constant current source	1U; current share; optional: PMBus™, internal Oring diodes	400/480Vac 3phase; voltage and current programming	PFC-Frontend; 385Vdc, 400/480Vac 3phase; 97.5% efficiency; RS-485 interface	Conduction cooled; no fan required; I2C Interface; Coating option	Water cooled; power supply for pulsed loads; PLe (ISO13849-1) safety interlock system	Long e-cap lifetime
7 years	5 years	2 or 3 years	3 years	3 years	2 years	5 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 or 5 years	3 years

DC-UPS

DBM

20A
Buffer and redundancy modules further increase plant up-time
5 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 NEW Models	PF-B	KPSA/KPSB	KAS/KMS-A/KMD/KMT
			
300 – 1800W	1500W	5 – 25W	4 – 60W
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
2, 3, 5 years	5 years	2 or 3 years	2 or 3 years

Z+



200, 400, 600, 800W

Benchtop or rack-mount (up to 6 units in a 2U rack); 0 – 650V; multiple interface; front panel output sockets

5 years

Genesys ™ BD coming soon



20 – 200kW

Up to 20kW in 2U rack; 0 – 1500V with autoranging output: CV, CC, CP, CR-operation mode; arbitrary waveform; regenerative technology; multiple interfaces

5 years

AC Power Sources

Genesys ™ AC NEW Models



2000 – 60000VA

Up to 4kVA in 1U, up to 60kVA in a turnkey 25U cabinet; 1-phase or 3phase; AC, DC, AC+DC mode; 0 – 360Vac L-N, +/-510Vdc; Output frequency: DC, 16Hz to 5kHz; integrated immunity and avionics testing; arbitrary waveform; multiple interfaces

5 years

Isolated DC-DC Converters

	CCG NEW Models	PX	PX-M	PY
				
Package	Compant size, including 1x1" standard	1x1", 1.25x0.8", 2x1", 2x1.6", 2x2"	1.25x0.8", 1.6x1", 2x1"	2x1", 1/4 Brick, 1/2 Brick
Cooling				
Output	1.5, 3, 6, 10, 15, 30, 60W	5, 10, 15, 20, 30, 40, 60W	3, 6, 10, 15, 20, 30W	20, 50, 75, 200W
Main Features	Input: DC 24, 110V Output: 3.3 – 30Vdc 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 5kV in-out isolation	Input: DC 24, 36, 48, 72, 96, 110V Output: 3.3 – 15Vdc Single, dual outputs
Warranty	5 years	2 years	5 years	3 years

Isolated DC-DC Converters

	HQA	GQA	iEA/iEH	iQE/iQG/iQL	DPX
					
Package	1/4 Brick	1/4 Brick	1/8 Brick	1/4 Brick	DIN-Rail
Cooling					
Output	85W, 120W	120W	48 – 78, 300W	72 – 504W	15, 20, 30, 40, 60W
Main Features	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	Input: DC 12, 24, 48V Output: 3.3 – 15Vdc Single, dual, tripple outputs
Warranty	3 years	3 years	3 years	3 years	3 years

Non-isolated DC-DC Converters

	i1C NEW Models	i3A/i6A	i7A NEW Models	i7C	i9C NEW	RGA/RGB
						
Package	1x1"	1/16, 1/32 Brick	1/16 Brick pin-out	1/16 Brick pin-out	1/4 Brick pin-out	1.4x1.4" Die cast
Cooling	Buck-boost	Buck, inverter	Buck	Buck-boost	Buck-boost	Buck
Output	6, 10, 12A	4.5, 8, 10, 14, 20A	33, 45, 60, 80, 100A	8, 12.5, 20A	30, 50A	10, 14, 20, 33, 45, 60A
Main Features	Input: DC 24, 48V (4:1) Output: 3.3 – 60Vdc	Input: DC 24, 48V Output: 3.3 – 40Vdc	Input: DC 12, 24, 48V Output: 0.8 – 32Vdc	Input: DC 12, 24, 48V Output: 5 - 48Vdc	Input: DC 9 – 80V Output: 5 – 60Vdc up to 99% efficiency	Input: DC 12, 24, 48V Output: 0.8 – 40Vdc
Warranty	3 years	3 years	3 years	3 years	3 years	3 years

EMC-Line Filters

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

DC-DC EMC-Filters

	FQA/FQB	RGF NEW	iDQ
			
Current	20A	20, 40A	10A
Voltage	+/-40V	up to 80Vdc	up to 75V
Main Features	Harsh environment	Exceptional differential mode performance; encapsulated in 5-sided metal case	Exceptional differential mode performance
Warranty	3 years	3 years	3 years

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CN-A/CN-B	CN-C NEW	PH-A280	CCGS NEW
			
1/4 Brick, 1/2 Brick	2x1”	1/4 Brick, 1/2 Brick, Full Brick	Chassis mount or DIN-Rail
30, 50, 100, 150, 200, 300W	30, 60W	50, 75, 100, 150, 300, 600, 1200W	15, 30W
for railway Input: 24, 110Vdc Output: 5 – 48Vdc	for railway Input: DC wide 36 – 160V Output: 5 – 30Vdc	Input: DC 280V Output: 3.3 – 48Vdc	Self contained design Input: DC 24, 48V (4:1) Output: 3.3 – 30Vdc
5 years	5 years	5 years	5 years

		Bi-directional DC-DC
DDSM NEW	EDCL/EDCM NEW	EZA
		
DIN-Rail	Enclosed	19-inch Rack 1U
120, 240W	1500, 3000W	2500, 11000W
Isolated design with programmable conversion ratios	CV/CC programmable Input: DC 70 – 220 or 160 – 420V Output: 0 – 156Vdc	Bi-directional DC 320V <-> 48V (2.5kW) DC 320V <-> 240V (11kW)
3 years	5 years	5 years

		High Voltage POL DC-DC
RGC	DDA	CHVM
		
1.4x1.4” Die cast	DIN-Rail	Various sizes (SIL)
Buck-boost	Buck, inverter	Capacitive converter
8, 12.5A	250, 325, 500W	1.4 – 3W
Input: DC 12, 24, 48V Output: 5 – 48Vdc	Input: DC 12, 24, 48V Output: 3.3 – 24Vdc Single, dual outputs	Input 12Vdc Output 180 – 2000Vdc
3 years	3 years	1 years

	ORing Modules
RDEN	i1R
	
50A	60, 80A
48V	3.3 to 60Vdc
Metal case; stud terminals	Integrated MOSFET-Based Oring module; low on resistance; high efficiency
1 years	3 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.