



Product Overview

AC-DC Chassis mount – Single output

	LS	CSW65	CUS-M NEW MODELS	CUS-LD	GWS	SWS-L	HWS-A/HD/P/ME	RWS-B/ME	GXE600	RFE	TPS	CPFE/Fi	EVS	ZPSA	ZWS/B BAF/P/C NEW
Cooling	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Output power	25 – 200W	40 – 65W	30 – 1500W	200, 250W	250, 500W	600, 1000W	15 – 1500W	50 – 1500W	600W	1000, 1600, 2500W	3000, 4000W	1000W	300, 600W	20 – 60W	10 – 300W
Main features	Cost optimized	90 – 305Vac AC Input DOE Level VI, ErP Tier 2 DIN Rail mount option	up to 94% efficiency low profile	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	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
Warranty	5 years	3 years	3, 5, 7 years	3 years	5 years	3 years	Leading warranty *	7 years	7 years	2 or 3 years	3 years	2 years	5 years	2 years	5 years

AC-DC Chassis mount – Multiple output

	ZWQ	CUT
Cooling	↓	↓
Output power	80 – 170W	35, 75W
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

	MU4 NEW	NV/M	EFE/M	XMS500/A	QM	QS	VEGA
Cooling	↓	↓	↓	↓	↓	↓	↓
Output power	600 – 800W	175 – 960W	300, 400W	500W	550 – 2000W	600 – 1200W	450 – 900W
Main features	1 – 8 outputs 3.3 to 104Vdc Low audible noise Suitable for 1U	1 – 8 outputs configurable	Full digital control high power density	Single output suitable for 1U low airflow requirement	1 – 18 outputs Very low audible noise	Single output low audible noise dual or single fusing	1 – 11 outputs configurable
Warranty	7 years	3 years	5 years	5 years	7 years	7 years	3 years

AC-DC Rack mount

	FPS	HFE	TPF45000-385
Cooling	↓	↓	↓
Output power	1000W	1600, 2500W	45000W
Main features	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	PFC-Frontend, 385Vdc, 3-phase input 400 – 480Vac, PMBus™, USB
Warranty	2 years	3 years	3 years

AC-DC DIN Rail

	DRL	DRB	DRB 3 Phase	DRF	DRM	DBM
Cooling	↓	↓	↓	↓	↓	↓
Output power	10 – 100W	15 – 480W	120, 240, 480, 960W	120, 240, 480, 960W	2x20A / 1x40A	20A
Main features	Designed for building automation systems with Class II rein- forced insulation.	Compact power supplies for efficient plant control systems.	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	5 years	5 years	5 years

Buffer module

	ZBM20
Cooling	↓
Output power	20A
Main features	12,15,24V nom. 380msec. Holdup
Warranty	5 years

AC-DC PCB mount – Single / multiple output

	PFE	PFH500	PF-A/PF-B	KPSA/KPSB	KMS-A/KMD/KMT	KWS-A	KAS
Cooling	↓	↓	↓	↓	↓	↓	↓
Output power	300 – 1000W	500W	500 – 1500W	5 – 25W	15 – 60W	5, 10, 15, 25W	4W
Main features	Operating up to 100°C baseplate · PFC high efficiency	101.6 x 61.0mm size PMBus™ communication (read-write) · High effi- ciency up to 92%	Low profile PFC front end 360Vdc output	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
Warranty	2 or 5 years	3 years	2 or 5 years	2 or 3 years	2 or 3 years	3 years	3 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

AC-DC Programmable

	Genesys+™ NEW MODELS	GSPS	Genesys™	Z+	SFL
Cooling	↓	↓	↓	↓	↓
Output power	1000 – 22.500W	30.000 – 90.000W	750 – 5000W	200, 400, 600, 800W	Max. load 300W, 1000W
Main features	1kW in 1U half with up to 22.5kW in 3U/19" 0 – 1500V · CV, CC, CP operation mode · arbitrary waveform · built-in USB, RS232/485, LAN (up to 1.5), Modbus-TCP, EtherCAT · isolated analogue · options: IEEE, Anybus, blank panel, dust filter, fast speed	19" cabinet Assembled with GSP-units Same features/options like GSP	1U, 2U · 0 – 600V · bench, rack (19") · built in RS-232/485, analogue · options: LAN, IEEE, Power Sink, Fast speed, isolated analogue · extension: <i>i-sink</i> function (electronic power sink)	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	High speed current control, integrated waveform generator, USB-interface for remote control
Warranty	5 years	5 years	5 years	5 years	2 years

Isolated DC-DC Converters

	CC-E	CCG NEW MODELS	PX NEW MODELS	PX-M NEW MODELS	PY NEW SERIES	CN NEW MODELS	PAH	PAF
								
Package	Designed for compact size	Designed for compact size	1x1", 1.25x0.8", 2x1", 2x1.6", 2x2"	1.25x0.8", 1.6x1", 2x1"	1x1", 1/4 Brick, 1/2 Brick	1/4 Brick, 1/2 Brick	1/2 Brick	Full Brick
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	20, 50, 75, 200W	30, 50, 100, 200, 300W	300, 350, 450W	504, 600, 700W
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	Input: DC 24, 36, 48, 72, 96, 110V Output: 3.3 – 15Vdc Single, dual outputs	Input: DC 24, 110V Output: 5 – 24Vdc	Input: DC 24, 48V Output: 12 – 48Vdc	Input: DC 24, 48V Output: 12 – 28Vdc
Warranty	5 years	5 years	2 years	5 years	3 years	5 years	2 years	2 years

Isolated DC-DC Converters

	PH-A280 NEW MODELS	HQA	GQA	iEA, iEH	iQE, iQG, iQL	DPX	Vega	EZA
								
Package	1/4 Brick, 1/2 Brick, Full Brick	1/4 Brick	1/4 Brick	1/8 Brick	1/4 Brick	DIN-Rail	Modular design	19-inch Rack 1U
Cooling	⬆	⬆	⬆	⬇ ⬆	⬆ ⬆	⬇	⬆	⬆
Output	50, 75, 100, 150, 300, 600, 1200W	85W, 120W	120W	48 – 78, 300W	72 – 504W	15, 20, 30, 40, 60W	370-450W	2500, 11.000W
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	Input: DC 12, 24, 48V Output: 3.3 – 15Vdc Single, dual, tripple outputs	Input: DC 48V Output: 1.8 – 56Vdc 1-11 Outputs	Bi-directional DC 320V <-> 48V (2.5kW) DC 320V <-> 240V (11kW)
Warranty	5 years	3 years	3 years	3 years	3 years	3 years	3 years	5 years

Non-isolated DC-DC Converters

	iAH/iBH/iCH	i3A	i6A	i7A NEW MODELS	i7C NEW MODELS	RGA NEW SERIES	RGC NEW SERIES	DDA
								
Package	0.48x0.48", 0.8x0.45", 1.3x0.53"	1/32 Brick	1/16 Brick	1/16 Brick pin-out	1/16 Brick pin-out	1.4x1.4" Die cast	1.4x1.4" Die cast	DIN-Rail
Topology	Buck	Buck	Buck, inverter	Buck	Buck-boost	Buck	Buck-boost	Buck, inverter
Output	3, 5, 6, 12, 20, 40A	4.5, 8A	8, 10, 14, 20A	33, 45, 60A	8, 12.5, 20A	10, 14, 20A	8, 12.5A	250, 325, 500W
Features	Input: DC 5, 12V Output: 0.6 – 8.5Vdc	Input: DC 12, 24V Output: 3.3 – 30Vdc	Input: DC 12, 24, 48V Output: 3.3 – 40Vdc	Input: DC 24, 48V Output: 0.8 – 24Vdc	Input: DC 12, 24, 48V Output: 3.3 – 24Vdc	Input: DC 12, 24, 48V Output: 3.3 – 40Vdc	Input: DC 12, 24, 48V Output: 3.3 – 48Vdc	Input: DC 12, 24, 48V Output: 3.3 – 24Vdc Single, dual outputs
Warranty	3 years	3 years	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	SIFI	IEC
			
Current	0.5 – 1000A	3 – 36A	1 – 20A
Voltage	250, 500V	250V	250V
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
Warranty	5 years	1 years	1 years

DC-DC EMC-Filter

FQA/FQB	iDQ	RDEN
		
20A	10A	50A
+/-40V	up to 75V	46V
Harsh Environment	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 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.