

Product Overview

AC-DC Chassis mount – Single output																
	LS	CSW65	CUS/M NEW	CUS/LD NEW	GWS	SWS-L	HWS-A/HD/P/ME	RWS-B/ME	GXE600	RFE	TPS NEW	CPFE/Fi	EVS	ZPSA	ZMS100	ZWS/B BAF/BP
																
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 – 100W	100W	10 – 300W
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	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
Warranty	5 years	3 years	3, 5, 7 years	3 years	5 years	2 or 3 years	Leading warranty *	7 years	7 years	2 or 3 years	3 years	2 years	5 years	2 years	3 years	5 years

AC-DC Chassis mount – Multiple output						AC-DC Configurable						AC-DC Desktop	
	ZP/D/T	ZWQ	CUT	VEGA	ZWD-PAF	NV/M	EFE/M	XMS500/A <i>NEW</i>	QM	QS	VEGA	DT/DTM <i>NEW</i>	WMM30 <i>NEW</i>
													
Cooling			 	 		 	 	 	 	 	 		
Output power	40W	80 – 170W	35, 75W	450 – 900W	100 – 440W	175 – 960W	300, 400W	500W	550 – 2000W	600 – 1200W	450 – 900W	25 – 300W	30W
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	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	Single output ErP compliant	Single output ErP compliant Class II wide range AC input
Warranty	2 years	1 years	3 years	3 years	2 years	3 years	5 years	5 years	7 years	7 years	 3 years	 2 or 3 years	3 years

AC-DC DIN Rail						AC-DC PCB mount – Single / multiple output								AC-DC Rack mount	
	DRL/C2	DRB	DRF	DRM40 NEW	DBM20 NEW	ZBM20 NEW	PFE	PFH500	PF-A	KPSA/KPSB NEW	KMS-A/KMD/KMT	KWS-A	KAS	FPS	HFE
Cooling	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️	🌬️
Output power	10, 30, 60, 88, 100W	15, 30, 50, 100, 120, 240, 480W	120, 240, 480, 960W	2x20A / 1x40A	20A	20A	300 – 1000W	500W	500, 1000W	5 – 25W	15 – 60W	5, 10, 15, 25W	4W	1000W	1600, 2500W
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%	24V nom. 250msec. Holdup	12, 15, 24V nom. 380msec. Holdup	Operating up to 100°C baseplate · PFC high efficiency	101.6 x 61.0mm size PMBus™ communication (read-write) · High efficiency 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
Warranty	3 years	3 years	5 years	5 years	5 years	5 years	2 or 5 years	3 years	2 years	2 or 3 years	2 or 3 years	3 years	3 years	2 years	3 years

AC-DC Programmable				
	Genesys+™ NEW	Genesys™	Z+	ZUP
				
Cooling				
Output power	1000 – 15,000W	750 – 5000W	200, 400, 600, 800W	200, 400, 800W
Main features	1kW in 1U half width, 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 (opt), 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: i-SINK 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	3U · 0 – 120V · bench, 3U rack mounted (3 / 6 units) · built-in RS232/485, analogue options: IEEE (external), front panel output sockets
Warranty	5 years	5 years	5 years	3 years

DC-DC Isolated Brick Modules							DC-DC Isolated Intermediate Bus Architecture Converters		
ISA	iEA/iEE/iEF	iQB/iQE/iQL	PH-50/100/150A	PH-300A	PH-600A NEW	PAF	iEH	iQL/iQG	iFB
1/16 Brick	1/8 Brick	1/4 Brick	1/4 Brick	1/2 Brick	1/2 Brick	Full Brick	1/8 Brick	1/4 Brick	
Cooling									
Output power	25 – 83W	50 – 240W	15 – 300W	50 – 150W	300W	600W	450 – 700W	300W	250 – 540W
Output voltage	Input: 48VDC Output: 3.3 – 12V	Input: 48VDC Output: 1.2 – 28V	Input: 48VDC Output: 1.2 – 28V	Input: 280VDC Output: 3.3 – 48V	Input: 280VDC Output: 12 – 48V	Input: 280VDC Output: 24V	Input: 24 – 280VDC Output: 12 – 48V	Input: 48VDC Output: 9.6 – 12V	Input: 48VDC Output: 9.6 – 12V
Warranty	3 years	3 years	3 years	5 years	5 years	5 years	2 years	3 years	3 years

DC-DC Isolated Industrial DC-DC Converters			DC-DC Isolated Medical	DC-DC Non-isolated – POL Modules			
CC-E	CC-G	PX	PX-M NEW	iAH/iBH/iCH	i3A/i6A	i7A/i7C NEW	
							
							
Cooling					2nd + Gen DOSA	Industrial POL	Industrial POL
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	4.5 – 20A Input: 9 – 53V Output: +/-3.3 – 30V	8 – 60A Input: 9 – 60V Output: 0.8 – 48V
Warranty	5 years	5 years	2 years	5 years	3 years	3 years	3 years

Application Specific Modules							
CHVM NEW	DDA NEW	DPX (Din-Rail)	Vega (Modular)	CN-A (Railway)	EZA (Renewable)	HQA (Harsh environment)	GQA
High-voltage DC-DC							
Cooling							
Output power	1.4 – 3W	250 – 500W	15 – 60W	370 – 450W	30 – 200W	2500, 11000W	85, 120W
Main features	Input: 12V Output: 180 – 2000V	Input: 9 – 53VDC Output: 3.3 – 24V	Input: 24/48VDC Output: 1.2 – 30V	Input: 34 – 75VDC 1 – 11 Outputs: 1.8 – 56V	Input: 24/110VDC Output: 5 – 24V	Input: 320V/48V or 320/240V Bi-directional DC-DC Converter	Input: 10 – 40V Output: 5 – 48V –55 to 115°C baseplate temperature
Warranty	1 year	5 years	2 years	3 years	5 years	5 years	3 years

EMC-Line Filters		DC-DC EMC-Filter		
RS/RT	FQA/FQB NEW	iDQ	RDEN	
Current	0.5 – 1000A	20A	10A	
Voltage	250, 500V	+/-40V	up to 75V	
Features	1-phase, 3-phase conform to ENEC, UL, CSA, RoHS low leakage	Harsh Environment	Exceptional differential mode performance	
Warranty	5 years	3 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 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.

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