DZH05-25 Series

5-25W AC/DC Converter

Features

- Universal input range:85~264VAC, 50/60Hz
- Regulated output, low ripple and noise
- Efficiency up to 85%
- Over-current, short circuit and over- voltage protection
- Plastic case, meets UL94V-0
- Meet UL60950,EN60950 standards
- PCB mounting, Chassis mounting, DIN-Rail mounting

DZH series a compact size power converter offered by ZimTec Electronics. It features universal input voltage, taking both DC and AC input voltage, low power consumption, high effeciency, high reliability, safer isolation. It offers good EMC performance, wich meet IEC/EN61000-4, CISPR22/EN55022, UI60950 and En60950 standards, and it's widely used in industrial, office and civil applications. For harsh EMC environment, the application circuit in the datasheet is strongly recommended.

SELECTION GUIDE

Certification	Part No.*	Output Power	Nominal Output Voltage and Current		Efficiency (230VAC, %/Typ.)	Max. Capacitive Load(μF)	
			(Vo1/Io1)	(Vo2/Io2)		Vo1	Vo2
UL/CE	DZH05-10B03	4W	3,3V/1250mA	–	70	8100	–
	DZH05-10B05	5W	5V/1000mA	–	75	6800	–
	DZH05-10B09		9V/550mA	–	77	1200	–
	DZH05-10B12		12V/420mA	–	79	1000	–
	DZH05-10B15		15V/330mA	–	80	680	–
	DZH05-10B24		24V/230mA	–	82	270	–
–	DZH05-10A05		+5V/500mA	-5V/500mA	75	1480	1480
	DZH05-10A12		+12V/210mA	-12V/210mA	79	130	130
	DZH05-10A15		+15V/160mA	-15V/160mA	79	110	110
	DZH05-10A24		+24V/100mA	-24V/100mA	80	16	16
	DZH05-10C0505-01		5V/800mA	±5V/100mA	70	2400	2400
	DZH05-10C0512-01		5V/600mA	±12V/100mA	73	1600	1600
	DZH05-10C0515-01		5V/600mA	±15V/80mA	74	1760	1760
	DZH05-10C0524-01		5V/600mA	±24V/50mA	75	1170	1170
	DZH05-10D0505-01		5V/900mA	5V/800mA	71	3360	3360
	DZH05-10D0512-01		5V/750mA	12V/400mA	73	370	370
	DZH05-10D0515-01		5V/7000mA	15V/300mA	73	8800	8800
	DZH05-10D0524-01		5V/600mA	24V/200mA	75	3000	3000
UL/CE	DZH05-10B03	6,6W	3,3V/2000mA	–	70	26400	–
	DZH05-10B05	10W	5V/2000mA	–	76	9440	–
	DZH05-10B09		9V/1100mA	–	78	3600	–
	DZH05-10B12		12V/900mA	–	80	2400	–
	DZH05-10B15		15V/700mA	–	81	1170	–
	DZH05-10B24		24V/450mA	–	82	370	–
	DZH05-10A05		+5V/1000mA	-5V/1000mA	76	8800	8800

SELECTION GUIDE

Certification	Part No.*	Output Power	Nominal Output Voltage and Current		Efficiency (230VAC, %/Typ.)	Max. Capacitive Load(μF)	
			(Vo1/Io1)	(Vo2/Io2)		Vo1	Vo2
UL/CE	DZH10-10A12	10W	+12V/450mA	-12V/450mA	80	1970	1970
	DZH10-10A15		+15V/350mA	-15V/350mA	81	1970	1970
	DZH10-10A24		+24V/200mA	-24V/200mA	84	660	660
–	DZH10-10C0512-02		5V/1000mA	±12V/200mA	75	3200	260
	DZH10-10C0515-02		5V/900mA	±15V/200mA	75	2160	80
UL/CE	DZH10-10D0505-02		5V/1800mA	5V/200mA	75	8000	540
	DZH10-10D0512-02		5V/1500mA	12V/200mA	79	4400	260
	DZH10-10D0515-02		5V/1400mA	15V/200mA	79	4400	170
	DZH10-10D0524-02		5V/1000mA	24V/200mA	81	4000	170
	DZH15-10B03	9.9W	3,3V/3000mA	–	73	72000	–
	DZH15-10B05	15W	5V/2800mA	–	76	44800	–
	DZH15-10B09		9V/1600mA	–	78	13760	–
	DZH15-10B12		12V/1250mA	–	80	5200	–
	DZH15-10B15		15V/1000mA	–	80	5120	–
	DZH15-10B24		24V/625mA	–	84	880	–
	DZH15-10B48		48V/320mA	–	85	370	–
–	DZH15-10A05		±5V/1500mA	-5V/1500mA	76	12800	12800
	DZH15-10A12		±12V/650mA	-12V/650mA	81	2350	2350
	DZH15-10A15		±15V/500mA	-15V/500mA	83	3120	3120
	DZH15-10A24		±24V/310mA	-24V/310mA	83	400	400
	DZH15-10C0505-05		5V/2000mA	±5V/500mA	75	10800	2160
	DZH15-10C0512-02		5V/2000mA	±12V/200mA	77	17280	2160
	DZH15-10C0515-02		5V/1800mA	±15V/200mA	78	5920	370
	DZH15-10C0524-01		5V/2000mA	±24V/100mA	78	1600	130
	DZH15-10D0505-08		5V/2200mA	5V/800mA	76	10800	2960
	DZH15-10D0512-04		5V/2000mA	12V/400mA	80	8640	1200
	DZH15-10D0515-03		5V/2000mA	15V/300mA	80	6480	800
	DZH15-10D0524-02		5V/2000mA	24V/200mA	81	12900	800
UL/CE	DZH20-10B03	13.53W	3.3V/4100mA	–	73	48000	–
	DZH20-10B05	20W	5V/3500mA	–	75	12240	–
	DZH20-10B09		9V/2100mA	–	77	7200	–
	DZH20-10B12		12V/1600mA	–	81	5400	–
	DZH20-10B15		15V/1300mA	–	83	2720	–
	DZH20-10B24		24V/850mA	–	85	1840	–
–	DZH20-10B48		48V/420mA	–	85	500	–
	DZH20-10A05		+5V/2000mA	-5V/2000mA	75	8000	8000
	DZH20-10A12		+12V/830mA	-12V/830mA	82	960	960
	DZH20-10A15		+15V/650mA	-15V/650mA	83	880	880
	DZH20-10C0505-05		5V/2500mA	±5V/500mA	74	11200	4480
	DZH20-10C0512-04		5V/2000mA	±12V/400mA	75	16000	1600
	DZH20-10C0515-03		5V/2000mA	±15V/300mA	76	13520	370
	DZH20-10C0524-02		5V/2000mA	±24V/200mA	77	11200	370
	DZH20-10D0512-06		5V/2500mA	12V/600mA	75	32400	3250
	DZH20-10D0515-05		5V/2500mA	15V/500mA	76	28000	1980
	DZH20-10D0524-03		5V/2500mA	24V/300mA	77	28000	720
UL/CE	DZH25-10B03	13.53W	3.3V/2500mA	–	73	48000	–

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SELECTION GUIDE

Certification	Part No.*	Output Power	Nominal Output Voltage and Current		Efficiency (230VAC, %/Typ.)	Max. Capacitive Load(μF)	
			(Vo1/Io1)	(Vo2/Io2)		Vo1	Vo2
UL/CE	DZH25-10B05	25W	5V/4100mA	–	74	12240	–
	DZH25-10B09		9V/2500mA	–	78	5600	–
	DZH25-10B12		12V/2100mA	–	82	5400	–
	DZH25-10B15		15V/1600mA	–	83	2400	–
	DZH25-10B24		24V/1100mA	–	85	1440	–
	DZH25-10B48		48V/500mA	–	87	500	–

Note: *About DZH05-10AXX, we use Vo2 as sampling feedback; DZH10/15/20-10AXX, use both positive and negative output as sampling feedback; and all others use Vo1 as sampling feedback.

INPUT SPECIFICATIONS

Item	Operating Conditions		Min.	Typ.	Max.	Unit
Input Voltage Range	AC input		87	–	264	VAC
	DC input		120	–	370	VDC
Input frequency			47	–	63	Hz
Input current	115VAC	DZH05 models	–	–	0.125	A
		DZH10 models	–	–	0.26	
		DZH15 models	–	–	0.37	
		DZH20models	–	–	0.6	
		DZH25 models	–	–	0.6	
	230VAC	DZH05 models	–	–	0.08	
		DZH10 models	–	–	0.16	
		DZH15 models	–	–	0.22	
		DZH20models	–	–	0.34	
		DZH25 models	–	–	0.34	
Inrush current	115VAC	DZH05 models	–	10	–	
		DZH10 models	–	10	–	
		DZH20 models	–	10	–	
		DZH20/ DZH25 models	–	16	–	
	230VAC	DZH05 models	–	20	–	
		DZH10 models	–	20	–	
		DZH15 models	–	20	–	
		DZH20/ DZH25 models	–	30	–	
Leakage current			0.3mA RMS typ./230VAC/50Hz			
Recommended External Input Fuse(Special package series include fuse)	DZH05 models		1A/250V, slow fusing			
	DZH10/DZH15 models		2A/250V, slow fusing			
	DZH20/ DZH25 models		3.15A/250V, slow fusing			
Hot Plug			Unavailable			

OUTPUT SPECIFICATIONS

Item	Operating Conditions			Min.	Typ.	Max.	Unit
Output Voltage Accuracy	Main circuit			–	±2	–	%
Line Regulation	Full load	Main circuit		–	±0,5	–	
		Auxiliary circuit		–	±1,5	–	
Load Regulation	10%-100% load	Single output		–	±1	–	
		Dual output(balanced load)		–	±2	–	
		Isolated triple output (balanced load)	Main circuit	–	±3	–	
			Auxiliary circuit	–	±5	–	

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		Isolated and separated twin output (balanced load)	Main circuit	–	±3	–	
			Auxiliary circuit	–	±5	–	
Ripple & Noise*	20MHz bandwidth (peak-peak value)				50	150	mV
Temperature Coefficient	Main circuit				±0.02	–	%/°C
Short Circuit Protection				Continuous, self-recovery			
Over-current Protection				≥110%Io self-recovery			
Over-voltage Protection	Main circuit	3.3 / 5VDC Output		≤ 7.5VDC			
		9VDC Output		≤ 13VDC			
		12 /15VDC Output		≤ 20VDC			
		24VDC Output		≤ 30VDC			
		48VDC Output		≤ 60VDC			
Min. Load	Single output models			0	–	–	%
	Dual output models (balanced load)			10	–	–	
	Isolated and separated twin output (balanced load)			10	–	–	
	Isolated triple output (balanced load)			10	–	–	
Hold-up Time	115VAC input			–	15	–	ms
	230VAC input			–	80	–	
Note: * Ripple and noise are measured by "parallel cable" method, please see AC-DC Converter Application Notes for specific operation.							

GENERAL SPECIFICATIONS

Item		Operating Conditions		Min.	Typ.	Max.	Unit
Isolation Voltage	Input-output	Test time: 1min		3000	–	–	VAC
Operating Temperature				-25	–	+70	℃
Storage Temperature				-25	–	+105	
Storage Humidity				–	–	95	%RH
Welding Temperature		Wave-soldering		260±5°C; time:5~10s			
		Manual-welding		360±10°C; time:3~5s			
Switching Frequency		DZH05-10B/D series		–	–	140	kHz
		Other series		–	65	–	
Power Derating		-25°C~-10°C		2.5	–	–	%/°C
		55°C~+70°C		3.75	–	–	
Safety Standard		IEC60950/EN60950/UL60950					
Safety Certification		EN60950/UL60950					
Safety Class		DZH15-10BXX		CLASS II			
		Other series		CLASS I			
MTBF		MIL-HDBK-217F@25°C > 300,000 h					

PHYSICAL SPECIFICATIONS

Casing Material	Black flame-retardant and heat-resistant plastic (UL94-V0)
Dimension	Refer to the Dimensions
Weight	Refer to the Dimensions
Cooling method	Free air convection

EMC SPECIFICATIONS

EMI	CE	CISPR22/EN55022, CLASS B (Without External Circuit)	
	RE	CISPR22/EN55022, CLASS B (Without External Circuit)	
EMS	ESD	IEC/EN61000-4-2 ±6KV/±8KV	perf. Criteria B
	RS	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4 ±2KV (Without External Circuit)	perf. Criteria B
		IEC/EN61000-4-4 ±4KV (See Fig. 5 for recommended circuit)	perf. Criteria B

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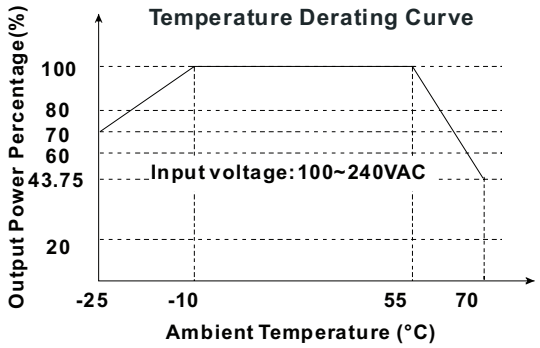
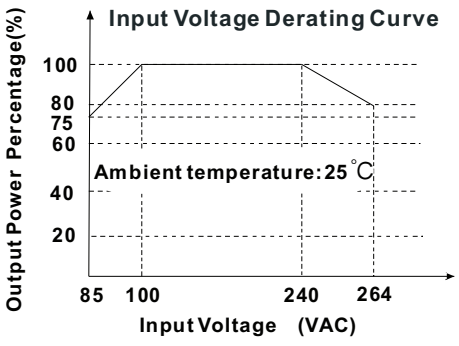
	Surge	IEC/EN61000-4-5	±1KV/±2KV(Without External Circuit)	perf. Criteria B
		IEC/EN61000-4-5	±2KV/4KV (See Fig. 5 for recommended circuit)	perf. Criteria B
EMS	CS	IEC/EN61000-4-6	10 Vr.m.s	perf. Criteria A
	PFM	IEC/EN61000-4-8	10A/m	perf. Criteria A
	Immunities of voltage dip, drop and short interruption	IEC/EN61000-4-11	0%-70%	perf. Criteria B

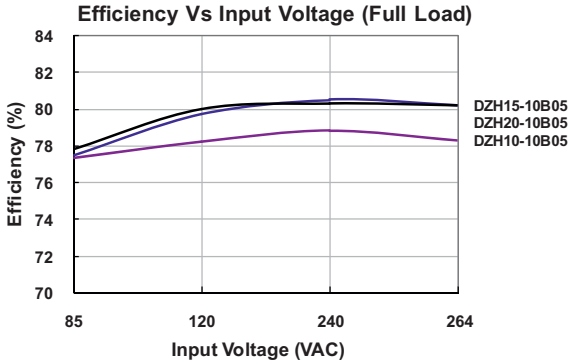
PRODUCT CHARACTERISTIC CURVE

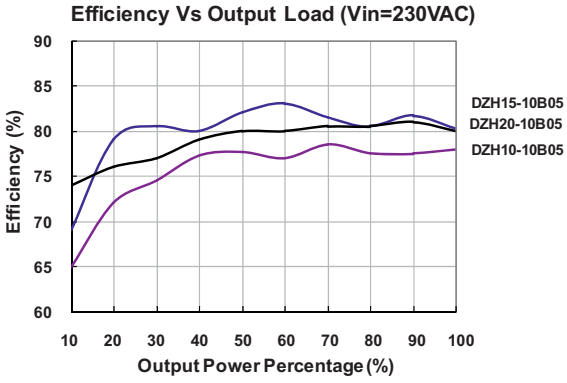


Note: Input voltage should be derated based on temperature derating when it is 85~100VAC/240~264VAC.



Note: When input DC,VDC=1.414*VAC-20.





Design Reference

1. Typical application circuit

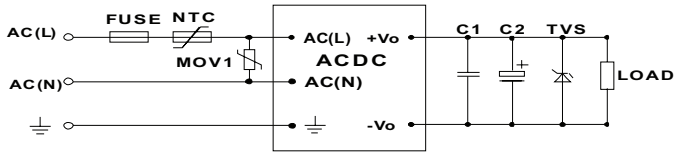


Fig. 1: Typical application circuit

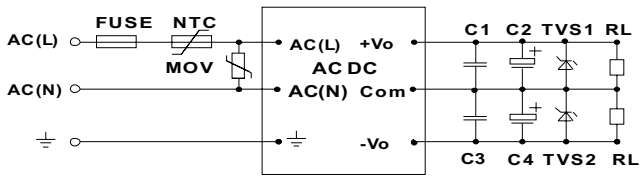


Fig. 2: DZHxx-10Axx (Dual Output) series typical application circuit

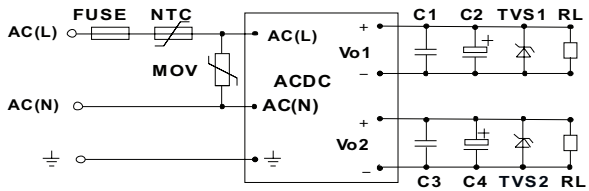


Fig. 3: DZHxx-10Dxx (Isolate Twin Output) series typical application circuit

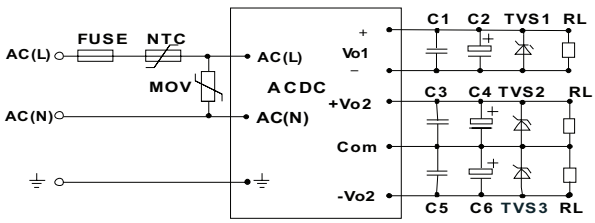


Fig. 4: DZHxx-10Cxx (Triple Output) series typical application circuit

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Model	C2(μF)	C4(μF)	C6(μF)	TVS1	TVS2	TVS3
DZH05-10B03	330			SMBJ7.0A		
DZH05-10B05	330			SMBJ7.0A		
DZH05-10B09	120			SMBJ12A		
DZH05-10B12	120			SMBJ20A		
DZH05-10B15	68			SMBJ20A		
DZH05-10B24	68			SMBJ30A		
DZH05-10A05	120	120		SMBJ7.0A	SMBJ7.0A	
DZH05-10A12	68	68		SMBJ20A	SMBJ20A	
DZH05-10A15	47	47		SMBJ20A	SMBJ20A	
DZH05-10A24	10	10		SMBJ30A	SMBJ30A	
DZH05-10C0505-01	220	22	22	SMBJ7.0A	SMBJ7.0A	SMBJ7.0A
DZH05-10C0512-01	120	22	22	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH05-10C0515-01	120	22	22	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH05-10C0524-01	120	22	22	SMBJ7.0A	SMBJ30A	SMBJ30A
DZH05-10D0505-01	220	22		SMBJ7.0A	SMBJ7.0A	
DZH05-10D0512-01	220	22		SMBJ7.0A	SMBJ20A	
DZH05-10D0515-01	120	22		SMBJ7.0A	SMBJ20A	
DZH05-10D0524-01	120	22		SMBJ7.0A	SMBJ30A	
DZH10-10B03	470			SMBJ7.0A		
DZH10-10B05	330			SMBJ7.0A		
DZH10-10B09	120			SMBJ12A		
DZH10-10B12	120			SMBJ20A		
DZH10-10B15	120			SMBJ20A		
DZH10-10B24	68			SMBJ30A		
DZH10-10A05	220	220		SMBJ7.0A		
DZH10-10A12	120	120		SMBJ20A	SMBJ20A	
DZH10-10A15	47	47		SMBJ20A	SMBJ20A	
DZH10-10A24	33	33		SMBJ30A	SMBJ30A	
DZH10-10C0512-02	220	68	68	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH10-10C0515-02	220	47	47	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH10-10D0505-02	220	68		SMBJ7.0A	SMBJ7.0A	
DZH10-10D0512-02	220	68		SMBJ7.0A	SMBJ20A	
DZH10-10D0515-02	220	47		SMBJ7.0A	SMBJ20A	
DZH10-10D0524-02	220	47		SMBJ7.0A	SMBJ30A	
DZH15-10B03	680			SMBJ7.0A		
DZH15-10B05	680			SMBJ7.0A		
DZH15-10B09	470			SMBJ12A		
DZH15-10B12	220			SMBJ20A		
DZH15-10B15	220			SMBJ20A		
DZH15-10B24	68			SMBJ30A		
DZH15-10B48	33			SMBJ64A		
DZH15-10A05	470	470		SMBJ7.0A	SMBJ7.0A	
DZH15-10A12	220	220		SMBJ20A	SMBJ20A	
DZH15-10A15	120	120		SMBJ20A	SMBJ20A	
DZH15-10A24	68	68		SMBJ30A	SMBJ30A	
DZH15-10C0505-05	470	220	220	SMBJ7.0A	SMBJ7.0A	SMBJ7.0A
DZH15-10C0512-02	470	120	120	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH15-10C0515-02	470	120	120	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH15-10C0524-01	470	120	120	SMBJ7.0A	SMBJ30A	SMBJ30A
DZH15-10D0505-08	470	470		SMBJ7.0A	SMBJ7.0A	
DZH15-10D0512-04	470	220		SMBJ7.0A	SMBJ20A	
DZH15-10D0515-03	470	120		SMBJ7.0A	SMBJ20A	
DZH15-10D0524-02	470	47		SMBJ7.0A	SMBJ30A	

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Model	C2(μF)	C4(μF)	C6(μF)	TVS1	TVS2	TVS3
DZH20-10B03	330			SMBJ7.0A		
DZH20-10B05	330			SMBJ7.0A		
DZH20-10B09	220			SMBJ12A		
DZH20-10B12	220			SMBJ20A		
DZH20-10B15	220			SMBJ20A		
DZH20-10B24	220			SMBJ30A		
DZH20-10A05	470	470		SMBJ7.0A	SMBJ7.0A	
DZH20-10A12	120	120		SMBJ20A	SMBJ20A	
DZH20-10A15	68	68		SMBJ20A	SMBJ20A	
DZH20-10C0505-05	330	120	120	SMBJ7.0A	SMBJ7.0A	SMBJ7.0A
DZH20-10C0512-04	330	120	120	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH20-10C0515-03	330	120	120	SMBJ7.0A	SMBJ20A	SMBJ20A
DZH20-10C0524-02	330	47	47	SMBJ7.0A	SMBJ30A	SMBJ30A
DZH20-10D0512-06	330	220		SMBJ7.0A	SMBJ20A	
DZH20-10D0515-05	330	220		SMBJ7.0A	SMBJ20A	
DZH20-10D0524-03	330	120		SMBJ7.0A	SMBJ30A	
DZH25-10B03	330			SMBJ7.0A		
DZH25-10B05	330			SMBJ7.0A		
DZH25-10B09	330			SMBJ12A		
DZH25-10B12	330			SMBJ20A		
DZH25-10B15	330			SMBJ20A		
DZH25-10B24	120			SMBJ30A		
DZH25-10B48	68			SMBJ64A		

Note: Qoutput filterng capacitors C2, C4, C6 are electrolytic, it is recommended to use high frequency and low impedance electrolytic capacitor. For capacitance and current of capacitor please refer to manufacture's datasheet. capacitor with stand voltage derating should be 80% or above. C1,C3,C5 are ceramic capacitors, which is used to filter high-frequency noise. TVS is a recommended component to protect post-circuits if converter fails. External input NTC is recommended to use 5D-9.

2. EMC solution-recommended circuit

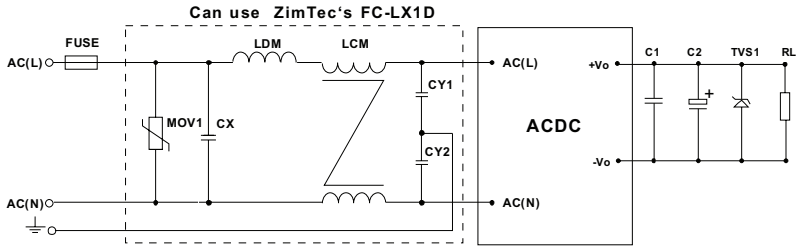


Fig 5: EMC Recommended circuit with higher requirements

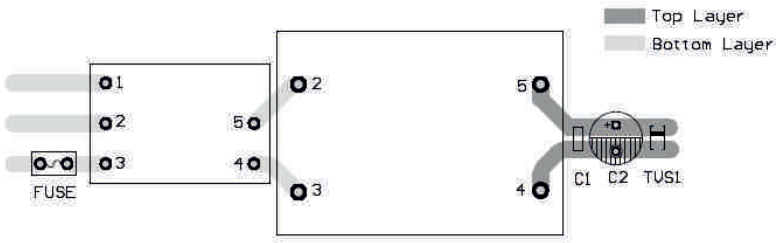


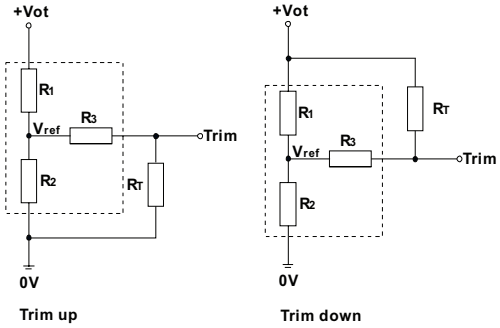
Fig 6: Recommended EMC circuit-PCB layout

Suggestions for safely regulation and wiring width: wire ⩾ 3mm, distance between wires ⩾6mm, and distance between wire and ground⩾ 6mm

Element model	Recommended value	Element model	Recommended value	
MOV1	S14K350	FC-LX1D	2KV/4KV EMC filter	
CY1 , CY2	1000pF/400VAC	FUSE	DZH05	1A/250V slow fusing, necessary
CX μ	0.1 F/275VAC		DZH10/15	2A/250V slow fusing, necessary
LCM	10mH, recommended to use ZimTec's FL2D-Z5-103		DZH20/25	3.15A/250V slow fusing, necessary
LDM	4.7μH /2A	--	--	

The models listed above is just for standard type. If you need the special specification product, please contact our service member by telephone presented in shortform cover or e-mail to: info@zimtec-electronics.de

3. Application of Trim and calculation of Trim resistance



Applied circuits of Trim (Part in broken line is the interior of models):

Calculation formula of Trim resistance:

$$\text{up: } R_T = \frac{aR_2}{R_2 - a} - R_3 \qquad a = \frac{Vref}{Vot - Vref} \cdot R_1$$

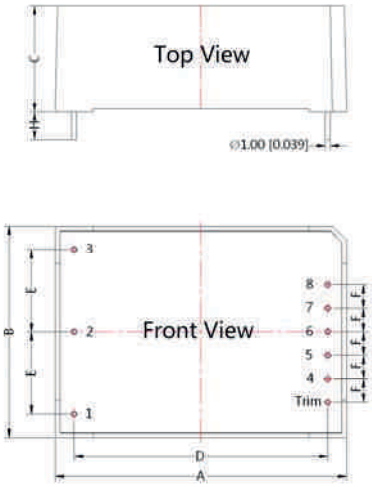
$$\text{down: } R_T = \frac{aR_1}{R_1 - a} - R_3 \qquad a = \frac{Vot - Vref}{Vref} \cdot R_2$$

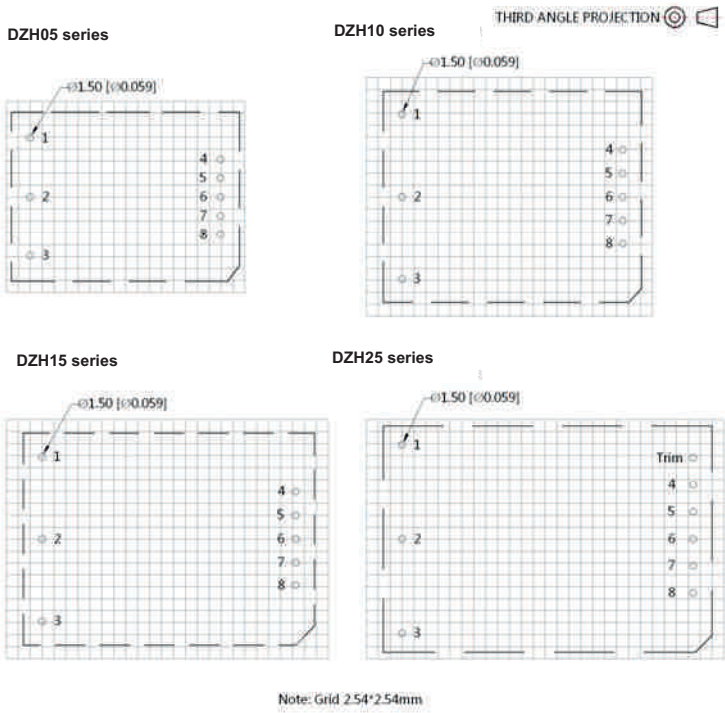
R_T is Trim resistance
a is a self-defined parameter, with no real meaning.

Vout	R1(KΩ)	R2(KΩ)	R3(KΩ)	Vref(V)	Vot(V)
3.3V	3.3	1.98	1	1.24	Output voltage after regulation, variation ≤ ±10%
5V	3.3	3.3	1	2.5	
9V	7.5	2.87	1	2.5	
12V	3.83	1	1	2.5	
15V	7.5	1.5	1	2.5	
24V	8.66	1	1	2.5	
48V	68	3.73	1	2.5	

4. For more informaton about ZimTec Electronics EMC Filter products, please visit www.zimtec-electronics.de to download the Selection Guide of EMC Filter.

DIMENSIONS AND RECOMMENDED LAYOUT





The models listed above is just for standard type. If you need the special specification product, please contact our service member by telephone presented in shortform cover or e-mail to: info@zimtec-electronics.de

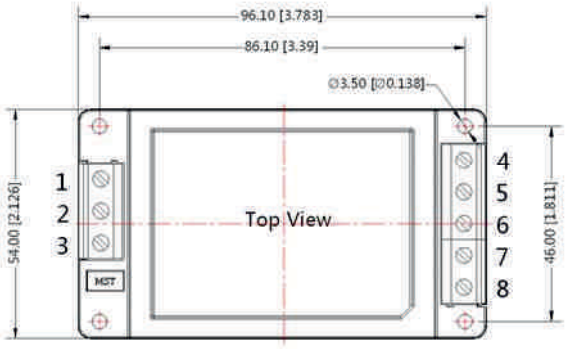
Dimensions (Unit: mm)					
NO.	DZH05	DZH10	DZH15	DZH20	DZH25
A	48.50	55.00	62.00	70.00	70.00
B	36.00	45.00	45.00	48.00	48.00
C	20.50	21.00	22.50	23.50	23.50
D	40.50	47.00	54.00	62.00	62.00
E	12.50	17.50	17.50	20.00	20.00
F	4.00	5.00	5.00	5.75	5.75
G	10.00	12.50	12.50	12.50	12.50

Models Weight					
Weight	DZH05	DZH10	DZH15	DZH20	DZH25
(Typ.)	50g	80g	85g	120g	120g

Pin Connection				
Pin	DZHXX-10B	DZHXX-10A	DZHXX-10C	DZHXX-10D
1	⏚	⏚	⏚	⏚
2	AC(N)	AC(N)	AC(N)	AC(N)
3	AC(L)	AC(L)	AC(L)	AC(L)
4	-Vo	-Vo	-Vo1	-Vo1
5	No Pin	No Pin	+Vo1	+Vo1
6	No Pin	COM	-Vo2	No Pin
7	No Pin	No Pin	COM	-Vo2
8	+Vo	+Vo	+Vo2	+Vo2
Trim	Trim**	No Pin	No Pin	No Pin

There is no pin "1" ⏚ on DZH15-10BXX
Trim**: only for DZH20/25-10BXX Series.

DZHXXA2 DIMENSIONS

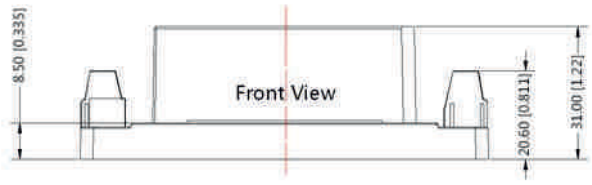


THIRD ANGLE PROJECTION

Pin	DZHXX-10B	DZHXX-10A	DZHXX-10C	DZHXX-10D
1	⏚	⏚	⏚	⏚
2	AC(N)	AC(N)	AC(N)	AC(N)
3	AC(L)	AC(L)	AC(L)	AC(L)
4	-Vo	-Vo	-Vo1	-Vo1
5	NC	NC	+Vo1	+Vo1
6	NC/Trimm**	COM	-Vo2	NC
7	NC	NC	COM	-Vo2
8	+Vo	+Vo	+Vo2	+Vo2

There is no pin „1" , ⏚ on DZH15-10BXXA2. NC/Trim**;
The pin ins Trim on DZH20/25-10BXXA2,
The pin is not connected on other single output products.

*The figure above is related to DZH15XXA2 series, the height of other series is different



Note:
Unit: mm(inch)
Wire range: 24~12AWG
General tolerances: ± 0.50[± 0.020]

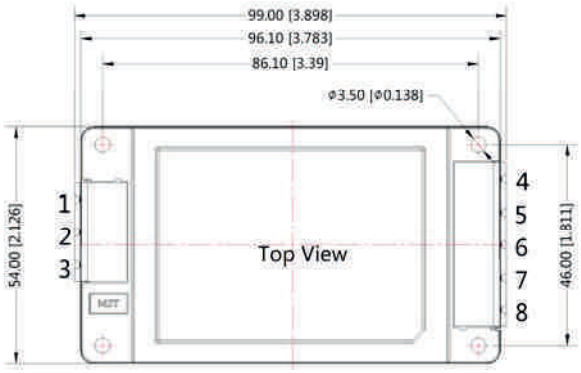
Dimensions (Unit: mm)	
Model	Dimensions
DZH05XXA2	96.10*54.00*29.00
DZH10XXA2	96.10*54.00*29.50
DZH15XXA2	96.10*54.00*31.00
DZH20XXA2	96.10*54.00*32.00
DZH25XXA2	96.10*54.00*32.00

Models Weight					
Weight	DZH05	DZH10	DZH15	DZH20	DZH25
Typ.	100g	130g	135g	170g	170g

The models listed above is just for standard type. If you need the special specification product, please contact our service member by telephone presented in shortform cover or e-mail to: info@zimtec-electronics.de

DZHXXA3 DIMENSIONS

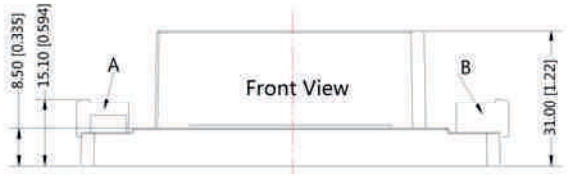
THIRD ANGLE PROJECTION



Pin Connection				
Pin	DZHXX-10B	DZHXX-10A	DZHXX-10C	DZHXX-10D
1	⏚	⏚	⏚	⏚
2	AC(N)	AC(N)	AC(N)	AC(N)
3	AC(L)	AC(L)	AC(L)	AC(L)
4	-Vo	-VO	-Vo1	-Vo1
5	NC	NC	+Vo1	+Vo1
6	NC/Trim**	COM	-Vo2	NC
7	NC	NC	COM	-Vo2
8	+Vo	+VO	+Vo2	+Vo2

There is no pin „1", ⏚ on DZH15-10BXXA3. NC/Trim;**
The pin is Trim on DZH20/25-10BXXA3,
The pin is not connected on other single output products.

*The figure above is related to DZH15XXA3 series, the height of other series is different



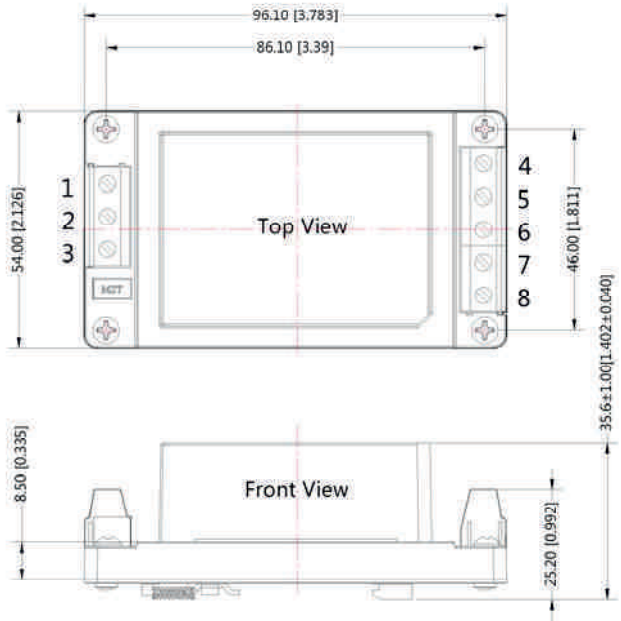
Note:
Unit: mm(inch)
General tolerances: ± 0.50[± 0.020]
A: DEGSON P/N: 2EDGRC -7.5-03P-14-100A (H)
B: DEGSON P/N: 2EDGRC -7.5-05P-14-100A (H)

Outline and dimensions (Unit: mm)	
Model	Dimensions
DZH05XXA3	99.00*54.00*29.00
DZH10XXA3	99.00*54.00*29.50
DZH15XXA3	99.00*54.00*31.00
DZH20XXA3	99.00*54.00*32.00
DZH25XXA3	99.00*54.00*32.00

Models Weight					
Weight	DZH05	DZH10	DZH15	DZH20	DZH25
Typ.	100g	130g	135g	170g	170g

DZHXXA4 DIMENSIONS

THIRD ANGLE PROJECTION



Pin Connection				
Pin	DZHXX-10B	DZHXX-10A	DZHXX-10C	DZHXX-10D
1	⏚	⏚	⏚	⏚
2	AC(N)	AC(N)	AC(N)	AC(N)
3	AC(L)	AC(L)	AC(L)	AC(L)
4	-Vo	-VO	-Vo1	-Vo1
5	NC	NC	+Vo1	+Vo1
6	NC/Trim**	COM	-Vo2	NC
7	NC	NC	COM	-Vo2
8	+Vo	+VO	+Vo2	+Vo2

There is no pin „1", ⏚ on DZH15-10BXXA4. NC/Trim;**
The pin is Trim on DZH20/25-10BXXA4,
The pin is not connected on other single output products.

*The figure above is related to DZH15XXA4 series, the height of other series is different

Note:
Unit: mm(inch)
Wire range: 24~12AWG
General tolerances: ± 0.50[± 0.020]

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Dimensions (Unit: mm)	
Model	Dimensions
DZH05XXA4	96.10*54.00*33.60
DZH10XXA4	96.10*54.00*34.10
DZH15XXA4	96.10*54.00*35.60
DZH20XXA4	96.10*54.00*36.60
DZH25XXA4	96.10*54.00*36.60

Models Weight					
Weight	DZH05	DZH10	DZH15	DZH20	DZH25
Typ.	140g	170g	175g	210g	210g

Note:

1. If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75% with nominal input voltage and rated output load;
3. All index testing methods in this datasheet are based on our Company's corporate standards;
4. The performance parameters of the product models listed in this manual are as above, but some parameters of non-standard model products may exceed the requirements mentioned above. Please contact our technicians directly for specific information;
5. We can provide product customization service;
6. Specifications are subject to change without prior notice.