

Технические характеристики на источники питания AC/DC серии KWS-A

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
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Вологда (8172)26-41-59
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Калининград (4012)72-03-81
Киров (8332)68-02-04
Курск (4712)77-13-04
Москва (495)268-04-70
Нижний Новгород (831)429-08-12
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Сочи (862)225-72-31
Томск (3822)98-41-53
Ульяновск (8422)24-23-59
Череповец (8202)49-02-64

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Екатеринбург (343)384-55-89
Казань (843)206-01-48
Кемерово (3842)65-04-62
Красноярск (391)204-63-61
Магнитогорск (3519)55-03-13
Набережные Челны (8552)20-53-41
Новосибирск (383)227-86-73
Пенза (8412)22-31-16
Рязань (4912)46-61-64
Саратов (845)249-38-78
Ставрополь (8652)20-65-13
Тула (4872)74-02-29
Уфа (347)229-48-12
Ярославль (4852)69-52-93



Single Output 5W to 25W AC-DC PCB-Mount Power Supplies

Features	Benefits
• Protection Class II, No Ground Connection	• Easy, rapid on-board integration
• Small footprint without the need for external components	• Saves space, time and cost
• Long Electrolytic Capacitor Lifetime	• Higher reliability, longer product or system life
• No load power consumption less than 0.5W	• Better energy efficiency, better environmental footprint
• Improved efficiencies up to 88%	• Reduced power losses, easier on board thermal management
• Wide Temperature Range -40°C (start up) to +85°C	• Enables use in wide range of professional industrial applications



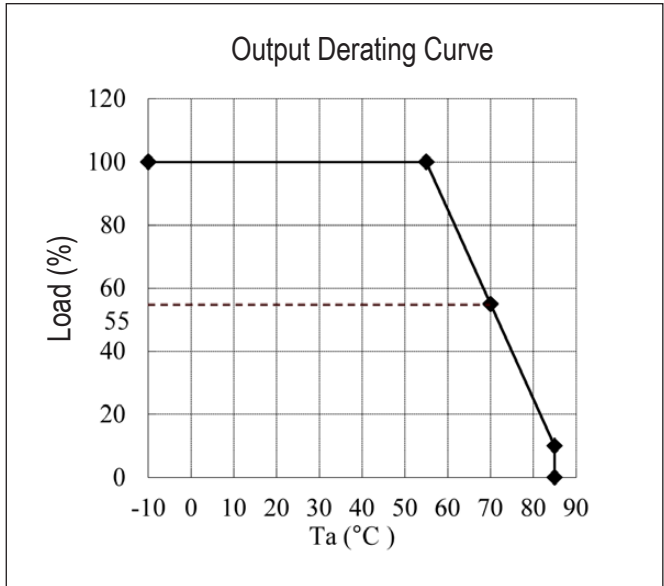
Specification						
Model		KWS5A		KWS10A	KWS15A	KWS25A
AC Input Voltage	VAC	85 - 265 (1)				
Input Frequency	Hz	47 - 440				
Inrush Current (cold start)	A	15 at 100VAC, 30 at 200VAC				
Power Factor	-	Meets EN61000-3-2				
Input Current (100/200VAC)	A	0.13 / 0.07	0.25 / 0.13	0.33 / 0.24	0.56 / 0.34	
Output Voltage Accuracy	%	±5				
No Load Power Consumption	W	<0.5				
Temperature Coefficient	%/°C	<0.02				
Overcurrent Protection	-	> 105% of rated current				
Overvoltage Protection	V	5V: 5.75 - 7, 12V: 13.8 - 18.3, 15V: 17.25 - 22.4, 24V: 27.6 - 34				
Hold Up Time (100 / 200V input)	ms	15 / 30	10 / 20			
Leakage Current	mA	<0.25 at 265VAC, 60Hz				
Operating Temperature	°C	-40°C start-up; -10 to +85°C. See derating curve for details				
Storage Temperature	°C	-40 to +85°C				
Humidity (non condensing)	%RH	30 - 90 Operating, 20 - 95 Storage				
Cooling	-	Convection Cooled				
Withstand Voltage	VAC	Input to Output 3kVAC				
Isolation Resistance	MΩ	>100MΩ at 25°C & 70%RH, Input to Output 500VDC				
Vibration (non operating)	-	10 - 55Hz: 1.65mm p-p (Max 10G) sweep for 1 min X, Y, Z for 1 hour				
Shock	-	< 50G for 11 ±5ms on (X,Y,Z) each axis 3 times				
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11; IEC61000-6-2				
Safety Agency Certifications	-	EN60950-1, UL/CSA60950-1, CE Mark LVD & RoHS2				
Conducted & Radiated EMI	-	EN55011-A, EN55022-A, FCC Class A (Requires external X capacitor to meet -B)				
Weight (Typ)	g	35	35	60	85	
Size (LxWxH)	mm	38.1 x 25.4 x 21.5		50.8 x 25.4 x 24	63.5 x 25.4 x 29	
Warranty	yrs	3				

Note: (1) Derate to 80% load from 100 to 85VAC input (KWS5A 90% load from 90 to 85VAC)

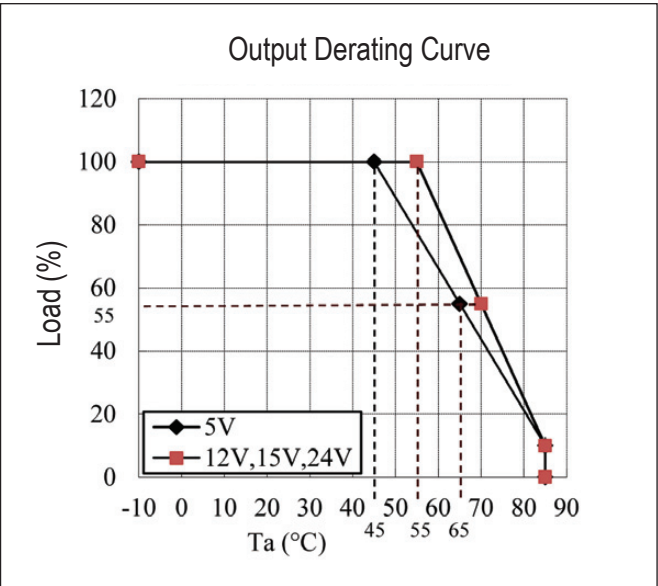
Model Selector							
Model	Voltage (V)	Max Current (A)	Max Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Efficiency (typ) % ⁽³⁾
KWS5A-5	5	1.0	5.0	40	20	200	72 / 74
KWS10A-5	5	2.0	10.0	40	20	200	76 / 77
KWS15A-5	5	3.0	15.0	40	20	200	76 / 78
KWS25A-5	5	5.0	25.0	40	20	200	80 / 82
KWS5A-12	12	0.45	5.4	96	48	240	73 / 75
KWS10A-12	12	0.9	10.8	96	48	240	80 / 81
KWS15A-12	12	1.3	15.6	96	48	240	80 / 83
KWS25A-12	12	2.2	26.4	96	48	240	84 / 86
KWS5A-15	15	0.35	5.3	120	60	240	73 / 75
KWS10A-15	15	0.7	10.5	120	60	240	81 / 82
KWS15A-15	15	1.0	15.0	120	60	240	81 / 84
KWS25A-15	15	1.7	25.5	120	60	240	85 / 87
KWS5A-24	24	0.22	5.3	150	96	240	75 / 77
KWS10A-24	24	0.5	12.0	150	96	240	82 / 84
KWS15A-24	24	0.7	16.8	150	96	240	82 / 85
KWS25A-24	24	1.1	26.4	150	96	240	86 / 88

Notes: (3) 100 / 200VAC input. Full load

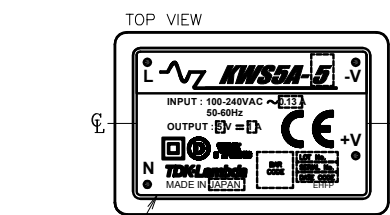
Output Derating Curve KWS5A



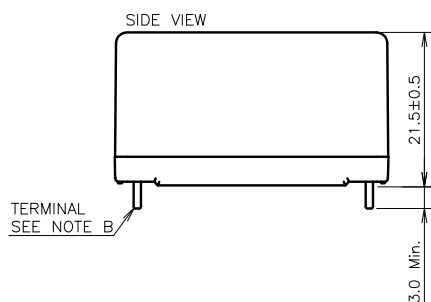
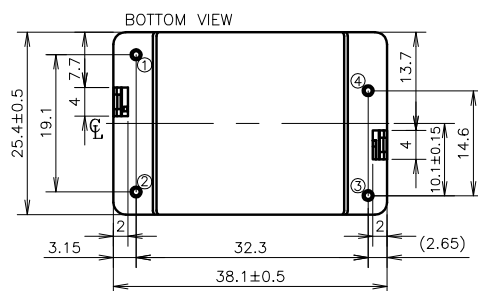
Output Derating Curve KWS-A Series (10, 15, 25W)



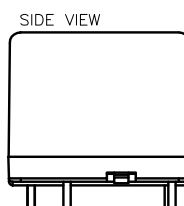
Outline Drawing KWS5A & KWS10A



NAME PLATE
SEE NOTE A



TERMINAL
SEE NOTE B



*TERMINAL ASSIGNMENTS

- ①.....AC(N) INPUT
②.....AC(L) INPUT
③.....-V OUTPUT
④.....+V OUTPUT

*MATERIAL

CASE : PLASTIC(UL94V-0)
PBT t=1.0mm

NOTES

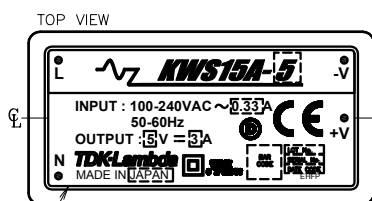
A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT, COUNTRY OF MANUFACTURE AND MARKING ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

B: INPUT AND OUTPUT TERMINALS : 4- ϕ 1 $\pm$ 0.1

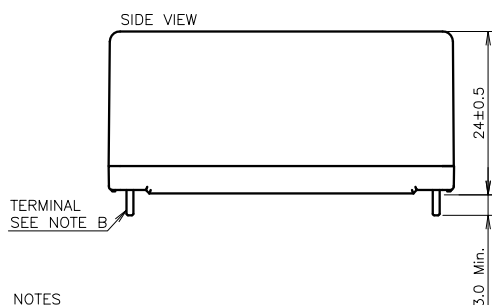
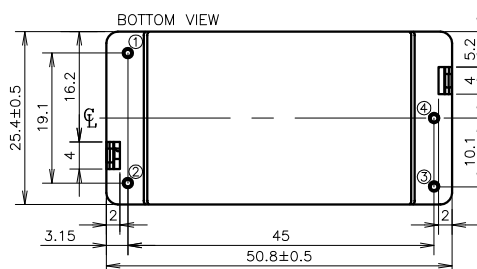
C: UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE : $\pm$ 0.3

(unit : mm)	
MODEL NAME	KWS5A
TDK-Lambda	
FC002-02-01	

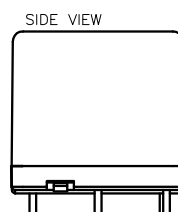
Outline Drawing KWS15A



NAME PLATE
SEE NOTE A



TERMINAL
SEE NOTE B



*TERMINAL ASSIGNMENTS

- ①.....AC(N) INPUT
②.....AC(L) INPUT
③.....-V OUTPUT
④.....+V OUTPUT

*MATERIAL

CASE : PLASTIC(UL94V-0)
PBT t=1.0mm

NOTES

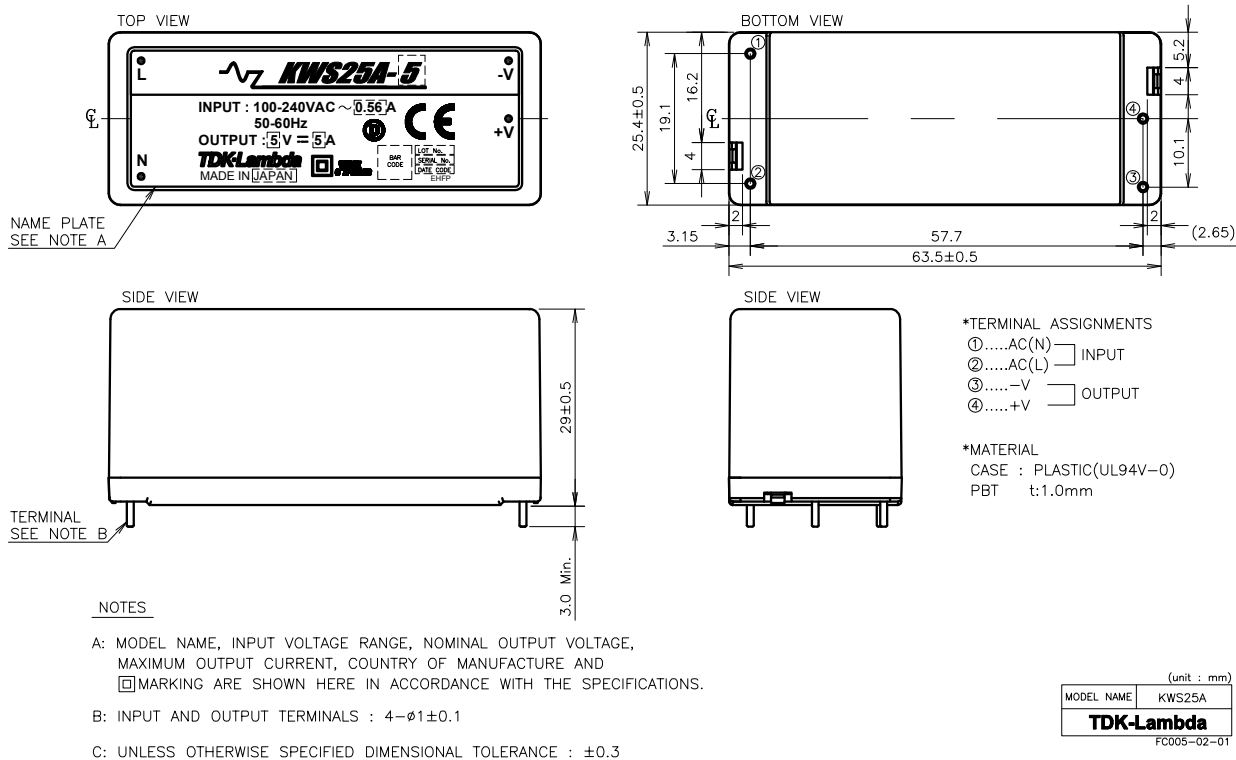
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B: INPUT AND OUTPUT TERMINALS : 4- ϕ 1 $\pm$ 0.1

C: UNLESS OTHERWISE SPECIFIED DIMENSIONAL TOLERANCE : $\pm$ 0.3

(unit : mm)	
MODEL NAME	KWS15A
TDK-Lambda	
FC004-02-01	

Outline Drawing KWS25A



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