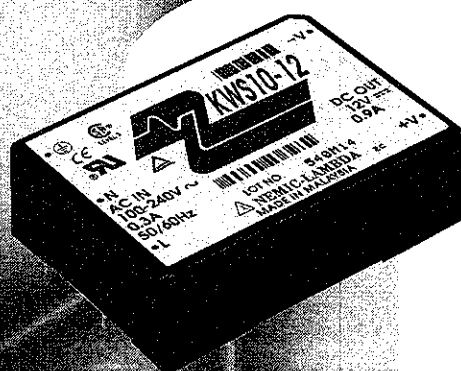




5-15

WATTS

POWER SUPPLY AC/DC

SINGLE OR DUAL OUTPUT

Ultra small and lightweight

Low cost

Universal input
(85 to 265VAC)

EMI : EN 55022 Class B
(with external capacitor)

No minimum load

Guarantee 1 year

INPUT

Input voltage range	85-265VAC
Frequency	47-440Hz
DC input	110 to 340VDC
Inrush current (typical at 200VAC)	30A for models 5 and 10W 40A for models 15W

OUTPUT

Power (convection cooled)	5W, 10W and 15W	
Regulation (max. value) :	Line	Load (0-100% Loading)
KWS in 5V	20mV	40mV
KWS in 12V	48mV	96mV
KWS in 15V	60mV	120mV
KWD in $\pm 12V$	60mV	600mV
KWD in $\pm 15V$	75mV	750mV

Ripple and noise	120mV for KWS in 5V 150mV for other models	
Over current protection	105%	
Over voltage protection	110%	
Hold up	17mSec at 100VAC and at 25°C	

GENERAL

Efficiency	67 to 77% model dependent	
Switching frequency	200KHz	
Voltage isolation :		
Input-output	3000VAC	
Input-ground	2000VAC	
Output-ground	500VAC (1mn)	
Isolation resistance	$\geq 100M\Omega$	
Safety Approvals	UL 1950 D3, CSA 234 and EN 60950	

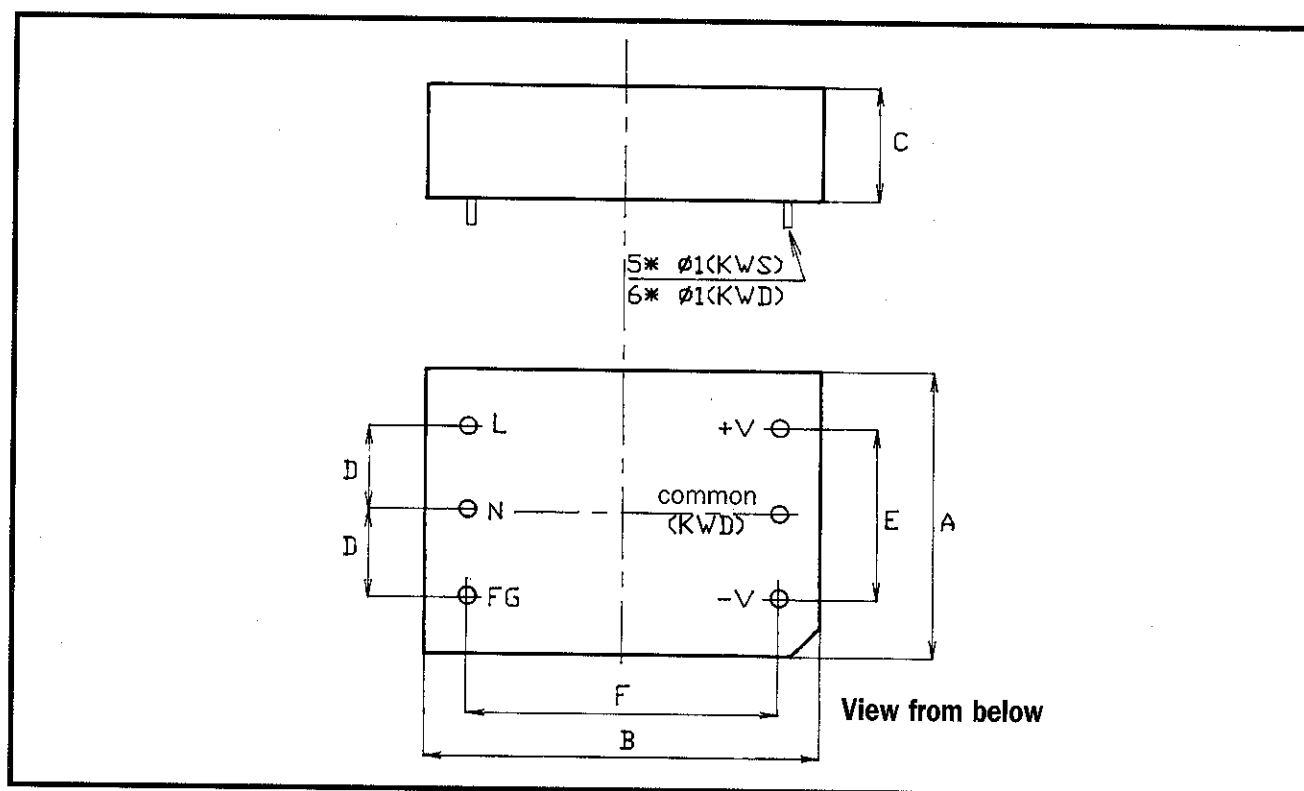
ENVIRONMENTAL

Operating temperature range	- 10°C to + 70°C	
Derating	- 10°C to 0°C	: 80%
	0°C to + 50°C	: 100%
	+ 50°C to + 60°C	: 60%
	+ 60°C to + 70°C	: 25%
Storage temperature	- 30°C to + 85°C	
Relative humidity (non condensing)	30 to 90% (operating) 20 to 90% (storage)	
EMI	VCCI - II / FCC Class B EN 55022 Class B (with external capacitor)	
Vibration	10G max.	
Shock	upto 50G	

TABLE OF MODELS

Model	Output voltage Volts ($\pm 5\%$ fix)	Output current Amp.	Output power Watts	Case	Weight g
KWS 5-5	5	1.0	5.0	5	75
KWS 5-12	12	0.45	5.4	5	75
KWS 5-15	15	0.35	5.25	5	75
KWS 10-5	5	2.0	10.0	10	100
KWS 10-12	12	0.9	10.8	10	100
KWS 10-15	15	0.7	10.5	10	100
KWS 15-5	5	3.0	15.0	15	150
KWS 15-12	12	1.3	15.6	15	150
KWS 15-15	15	1.0	15.0	15	150
KWD 5-1212	± 12 (or 24)	0.22	5.3	5	75
KWD 5-1515	± 15 (or 30)	0.18	5.4	5	75
KWD 10-1212	± 12 (or 24)	0.45	10.8	10	100
KWD 10-1515	± 15 (or 30)	0.36	10.8	10	100
KWD 15-1212	± 12 (or 24)	0.65	15.6	15	150
KWD 15-1515	± 15 (or 30)	0.52	15.6	15	150

PHYSICAL SPECIFICATION



Case	Dimensions (in mm)						
	A	B	C	D	E	F	G
5	45	55	20.5	17.5	20	47	4
10	45	64	20.5	17.5	20	54	6
15	48	70	23.5	20	23	62	4

Series KW

LAMBDA 
An Invensys company

EDITION 2001