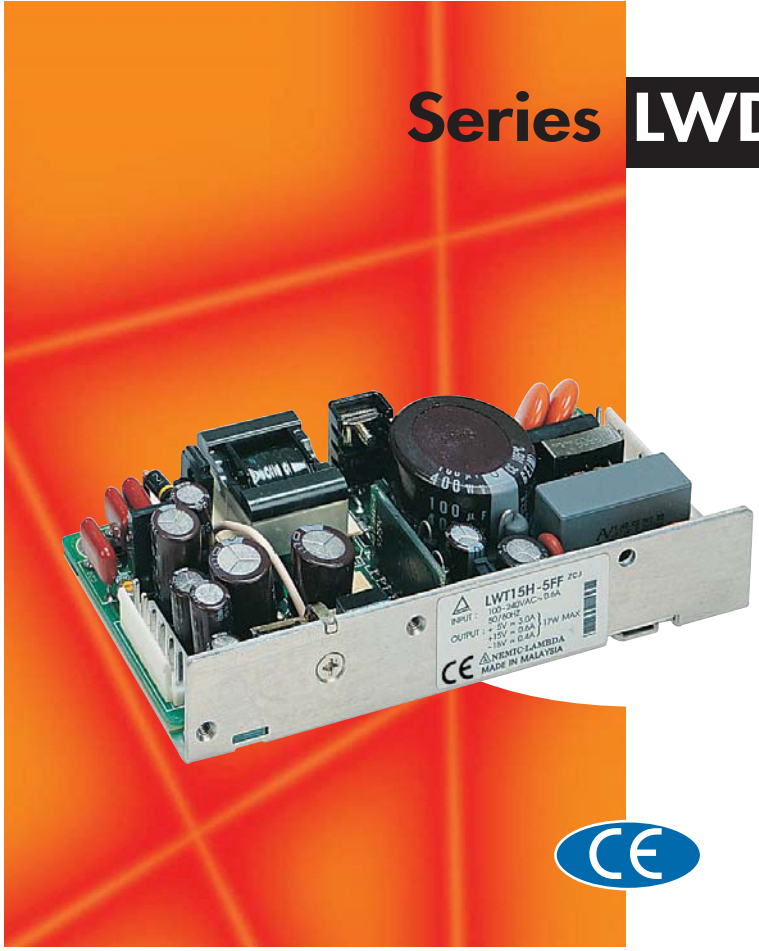
Series LWD-T

TDK·Lambda



15-50

WATTS

POWER SUPPLY AC/DC

DUAL OR TRIPLE OUTPUT

Universal input 85 at 265VAC

Low profile : 26mm high

Fully regulated outputs

Conforms to EMI conducted EN55022 curve B

Guarantee 1 year

INPUT

Input voltage range	85-265VAC
Frequency	47-440Hz
Inrush current (at 200VAC)	28A on LWD 30, LWD 50, LWT 15H 32A on LWD 15, LWT 30H, LWT 50H
Input protection	fuse
Input voltage DC Input	110-330VDC

OUTPUT

Power (convection cooled)	15 to 50W
Adjustable output	+ 5% on output 1
Line regulation	1% on all models
Liner regulation	2% of 0 to 100% of charge
Hold up (at 100VAC)	20mS at full charge
Ripple and noise (value peak to peak) :	
on the 5V	100mV
on the 12V and the 15V	150mV
on the 24V	200mV
Coefficient temperature	0.02% / °C on output 1 0.04% / °C on outputs 2 and 3
Over current protection	current limit
Over voltage protection	135% output 1 only

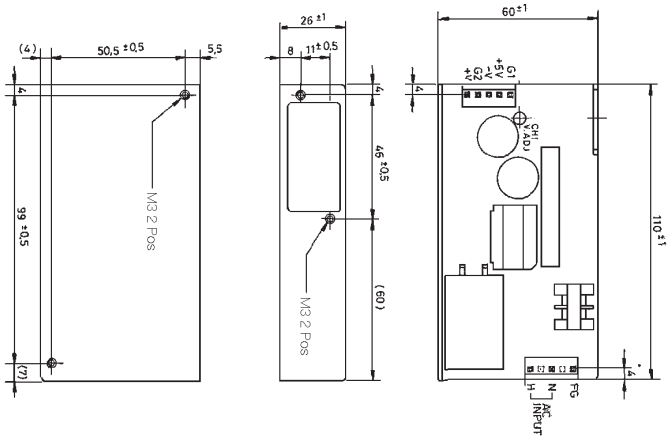
GENERAL

Efficiency	63% on LWD 15 72% on other models
MTBF	Consult Technical Sales
Isolation voltage :	
Input-output	2kV RMS
Input-ground	2kV RMS
Isolation resistance Output-ground	> 100MΩ 500V

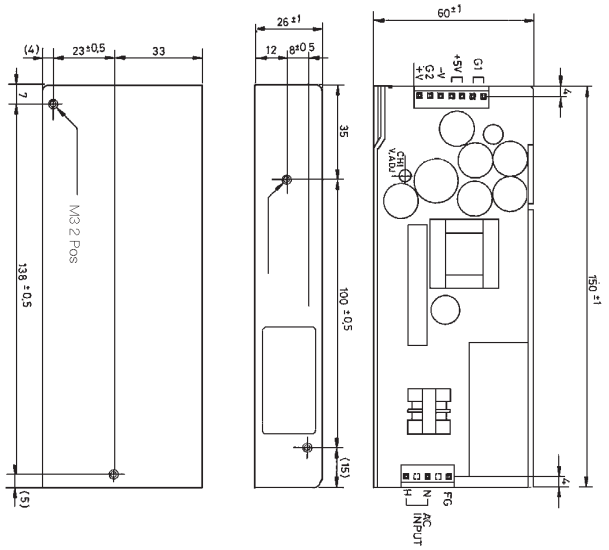
ENVIRONMENTAL

Operating temperature range (convection cooled)	0°C to + 60°C
Storage temperature	- 30°C to + 85°C
Relative humidity :	
operating	30% to 90% RH
storage	10% to 95 %

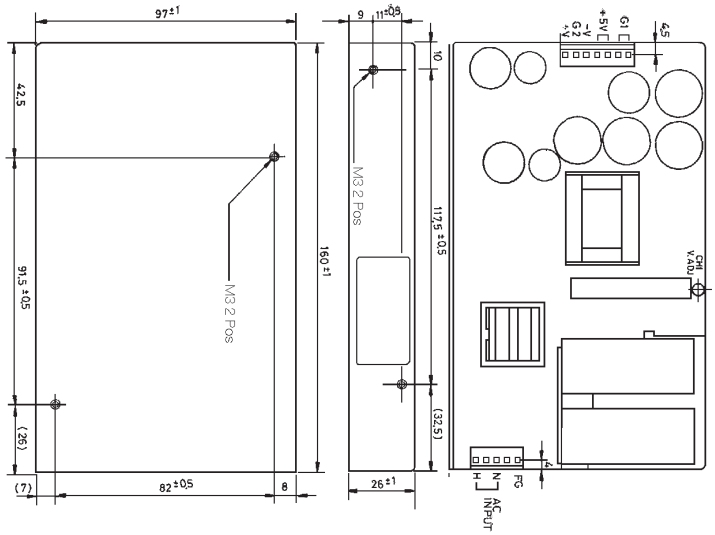
CASE 15
Weight 0.18Kg



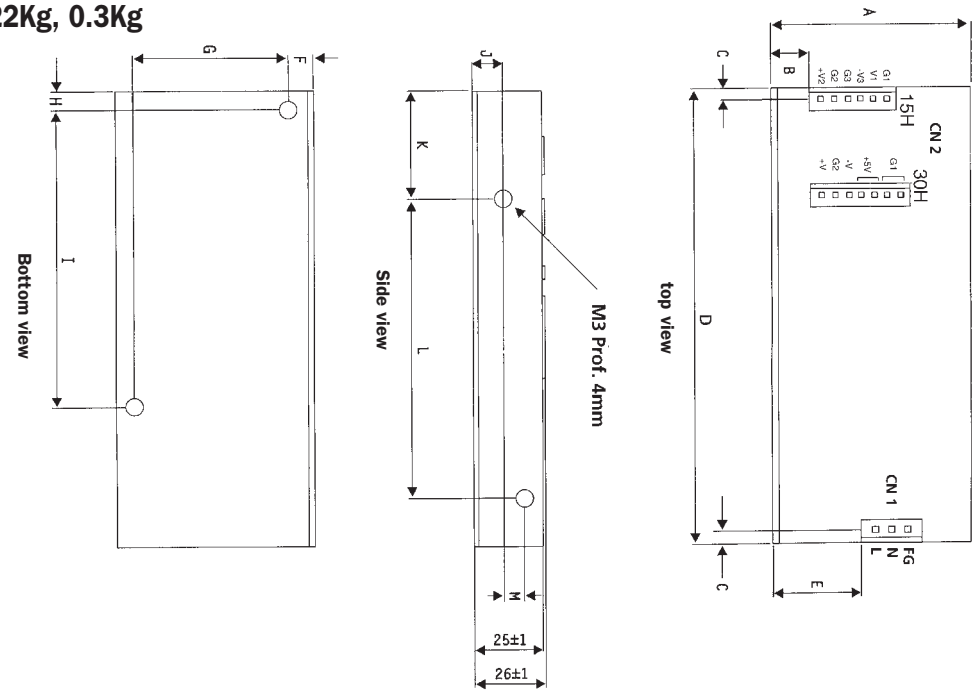
CASE 30
Weight 0.25Kg



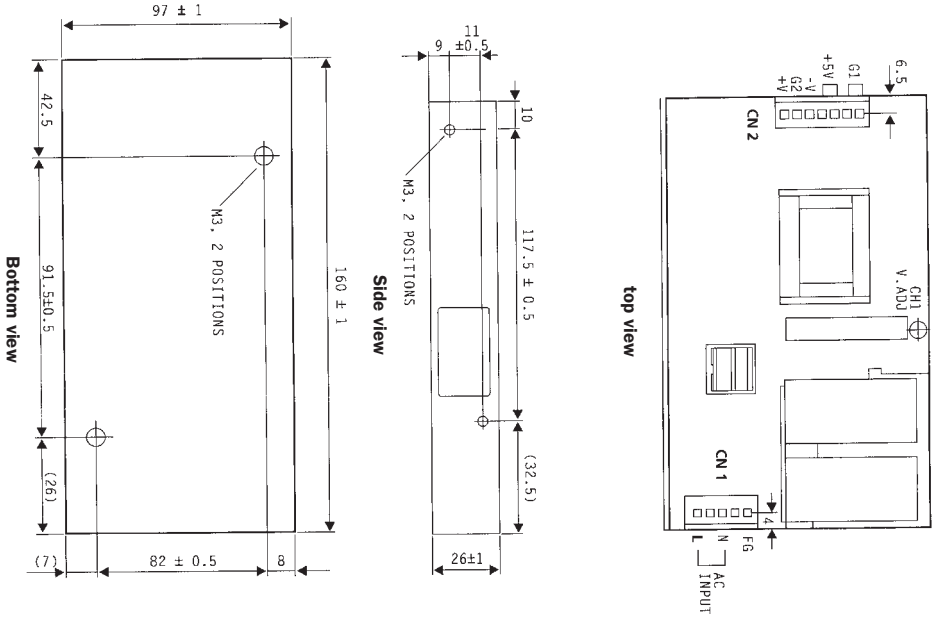
CASE 50
Weight 0.4Kg



CASE 15H, 30H
Weights 0.22Kg, 0.3Kg



CASE 50H
Weight 0.4Kg



Case	Dimensions (mm)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
15H	60±1	8.5	4.5	128±1	27.5	5.5	50.5±0.5	4	99±0.5	8	4	46±0.5	11±0.5
30H	70±1	15.5	4	160±1	10	43	23±0.5	17	138±0.5	12	45	100±0.5	8±0.5

OUTLINE SPECIFICATION (continued)

ENVIRONMENTAL (continued)

Derating :
Convection/forced air + 10°C

Temp. / Model	40°C	45°C	50°C	60°C
LWD	100%	100%	60%	40%
LWT 15H	100%	100%	80%	60%
LWT 30H	100%	100%	80%	60%
LWT 50H	100%	100%	80%	60%

Shock	20G
Vibration	2G
EMI	LWT conforms to EN55022 curve B (conducted)
	LWD conforms to EN55022 curve A (conducted)

TABLE OF MODELS

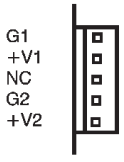
Model	Case	Power Watts	Current (min. load) Amp.	Output 1 Volts	Output 1 Amp.	Output2 Volts	Output2 Amp.	Output 3 Volts	Output 3 Amp.	Dimensions (L x W x H)
LWD 15 0512	15	15	0	5	1.5	12	0.6			110 x 60 x 26
LWD 30 0512	30	29	0	5	3.0	12	1.2			150 x 60 x 26
LWD 50 0512	50	49	1	5	5.0	12	2.0			160 x 97 x 26
LWD 15 0524	15	15	0	5	1.5	24	0.3			110 x 60 x 26
LWD 30 0524	30	29	0	5	3.0	24	0.6			150 x 60 x 26
LWD 50 0524	50	49	1	5	5.0	24	1.0			160 x 97 x 26
LWD 15 1212	15	14	0	12	0.6	12	0.6			110 x 60 x 26
LWD 30 1212	30	29	0	12	1.2	12	1.2			150 x 60 x 26
LWD 50 1212	50	48	0.4	12	2.0	12	2.0			160 x 97 x 26
LWD 15 1224	15	14	0	12	0.6	24	0.3			110 x 60 x 26
LWD 30 1224	30	29	0	12	1.2	24	0.6			150 x 60 x 26
LWD 50 1224	50	48	0.4	12	2.0	24	1.0			160 x 97 x 26
LWD 15 1515	15	15	0	15	0.5	15	0.5			110 x 60 x 26
LWD 30 1515	30	30	0	15	1.0	15	1.0			150 x 60 x 26
LWD 50 1515	50	48	0.3	15	1.6	15	1.6			160 x 97 x 26
LWT 15H 525	15H	17	0.5	5	3.0	+12	0.6	-5	0.4	128 x 60 x 26
LWT 30H 525	30H	30	0.7	5	5.0	+12	1.2	-5	0.6	160 x 70 x 26
LWT 50H 525	50H	50	1	5	8.0	+12	1.5	-5	1.0	160 x 97 x 26
LWT 15H 522	15H	17	0.5	5	3.0	+12	0.6	-12	0.4	128 x 60 x 26
LWT 30H 522	30H	30	0.7	5	5.0	+12	1.2	-12	0.6	160 x 70 x 26
LWT 50H 522	50H	50	1	5	8.0	+12	1.5	-12	1.0	160 x 97 x 26
LWT 15H 5FF	15H	17	0.5	5	3.0	+15	0.6	-15	0.4	128 x 60 x 26
LWT 30H 5FF	30H	30	0.7	5	5.0	+15	1.2	-15	0.6	160 x 70 x 26
LWT 50H 5FF	50H	50	1	5	8.0	+15	1.5	-15	1.0	160 x 97 x 26

CONNECTION

Input connector	JST type VHR-5N
Output connector	JST type VHR-5N (LWT 15H, LWD 15, 30)
	JST type VHR-7N (LWT 30H, 50H, LWD 50)
Type of case	open frame

Series LWD, Output connections :

LWD 15-30



LWD 50