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KLT30F SERIES SPECIFICATIONS		H00060N				0		1/5	
MODEL NUMBER, RATINGS									
MODEL NUMBER	Input Ratings	Output Voltage and Current						* 1	
		CH1		CH2		CH3			
		Voltage (V)	Current (A)	Voltage (V)	Current (A)	Voltage (V)	Current (A)		
KLT30F-0522	100-230V 50-60Hz	+5	0~4	+12	0~1.2	-12	0~0.5		
KLT30F-0533	100-230V 50-60Hz	+5	0~4	+15	0~1.0	-15	0~0.5		
*1: Total output wattage not exceed 30W.									
MAXIMUM RATINGS									
ITEMS				MIN		MAX	UNIT		
Input Voltage				85	—	264	Vac		
Input Frequency				47	—	63	Hz		
Output Power				0	—	30	W		
Isolation Resistance	Pri. - Sec.	DC 500V		—	100	—	MΩ		
	Pri. - Case	DC 500V		—	100	—			
	Sec. - Case	DC 500V		—	100	—			
Isolation Voltage	Pri. - Sec.	10mA		—	3000	—	Vac 1min.		
	Pri. - Case	10mA		—	1500	—			
	Sec. - Case	20mA		—	500	—			
Operating temperature		*2		0	—	60	°C		
Storage Temperature				-20	—	85	°C		
Humidity		*3		20	—	85	%Rh		
*2: See derating curve FIG.1.									
*3: No condensing									
Electrical Characteristics (Common Items) Ta=25°C, AC100/230V, 50/60Hz, TYP Output									
ITEMS		CONDITIONS		MIN	TYP	MAX	UNIT		
Input Regulation		Vin=85~132, 170~264		—	—	50	mV		
Input Current	Vin=100V		—	0.8	—	A			
	Vin=230V		—	0.4	—	A			
In-rush Current	Vin=100V, 50Hz		—	15	—	A			
	Vin=230V, 50Hz		—	30	—	A			
Rise-up Time	Vin=100V		—	—	100	ms			
	Vin=230V		—	—	100	ms			
Hold-up Time	CH1		—	20	—	ms			
	CH2, CH3		—	20	—	ms			
Leakage Current	Vin=100V, 60Hz		—	—	0.5	mArms			
	Vin=230V, 60Hz		—	—	0.75	mArms			
OCP point				105	—	—	%		
Drift		8H, after 1H		—	—	0.5%+15	mV		
Tem. coefficient				—	—	0.02	%/°C		
KAGA COMPONENTS CO., LTD. NIIGATA FACTORY					SECTION		Drawn	Check	Approved
					Engineer				
					DATE				
					02-Jul-03				

rev. 1		rev. 4	
rev. 2		rev. 5	
rev. 3		rev. 6	
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Electrical Characteristics (Model by)

KLT30F-0522 Ta=25°C, AC100/230V, 50/60Hz, TYP Output

ITEMS	CONDITION		MIN	TYP	MAX	UNIT
OVP point	CH1 only		5.75	—	—	V
Output Voltage		CH1	—	5.0	5.25	V
		CH2	11.4	12.0	12.6	V
		CH3	11.4	12.0	12.6	V
Output Current	*4 *5	CH1	—	3	4	A
		CH2	—	0.8	1.2	A
		CH3	—	0.45	0.5	A
Load Regulation		CH1	—	—	100	mV
		CH2	—	—	120	mV
		CH3	—	—	120	mV
Ripple	BW=DC~100MHz	CH1	—	—	100	mV
		CH2	—	—	100	mV
		CH3	—	—	100	mV
Ripple and Noise	BW=DC~100MHz	CH1	—	—	150	mV
		CH2	—	—	150	mV
		CH3	—	—	150	mV
Efficiency	Vin=100V		—	70	—	%
	Vin=230V		—	70	—	%

KLT30F-0533 Ta=25°C, AC100/230V, 50/60Hz, TYP Output

ITEMS	CONDITION		MIN	TYP	MAX	UNIT
OVP point	CH1 only		5.75	—	—	V
Output Voltage		CH1	—	5.0	5.25	V
		CH2	14.25	15.0	15.75	V
		CH3	14.25	15.0	15.75	V
Output Current	*4 *5	CH1	—	3	4	A
		CH2	—	0.65	1	A
		CH3	—	0.35	0.5	A
Load Regulation		CH1	—	—	100	mV
		CH2	—	—	120	mV
		CH3	—	—	120	mV
Ripple	BW=DC~100MHz	CH1	—	—	100	mV
		CH2	—	—	100	mV
		CH3	—	—	100	mV
Ripple and Noise	BW=DC~100MHz	CH1	—	—	150	mV
		CH2	—	—	150	mV
		CH3	—	—	150	mV
Efficiency	Vin=100V		—	70	—	%
	Vin=230V		—	70	—	%

*4 : Total output wattage do not exceed 30W

*5 : Using less than 10% of rated output, it is possible that regulation and ripple noise

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Vibration and Shock	Vibration	10~55Hz 0.5mm	3direction each 30min.
	Shock	20G (3direction	each 3 times)

Additional function	Over Current Protection	Automatic Recovery
	Over Voltage Protection	CH1 only Zener limiter
	Voltage adjust	CH1

Safety	UL60950
	CSA22. 2 No.60950
	CE (LVD)

EMI	FCC Part15	EN55022	VCCI (B)	meet
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Warranty 3 years

Cautions

- ☆ Avoid sustained dead short condition
- ☆ CH1 separated CH2, CH3
- ☆ Units may not rise-up over 10,000uF capacitor add output.
- ☆ Do not exceed total output power 30W.

Model designation

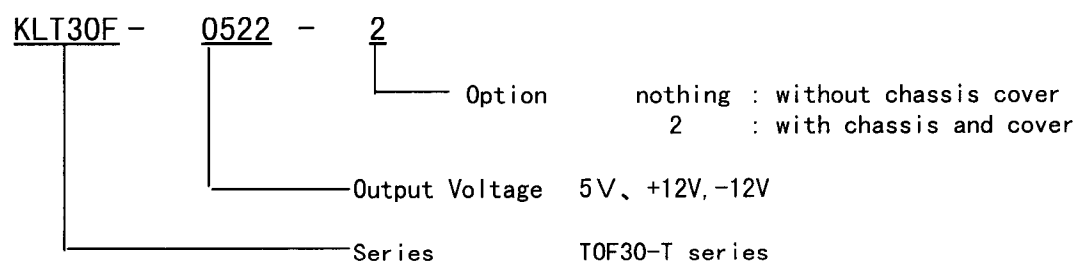
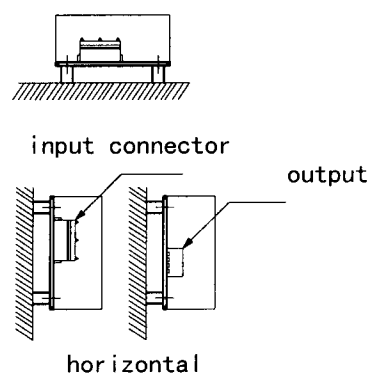
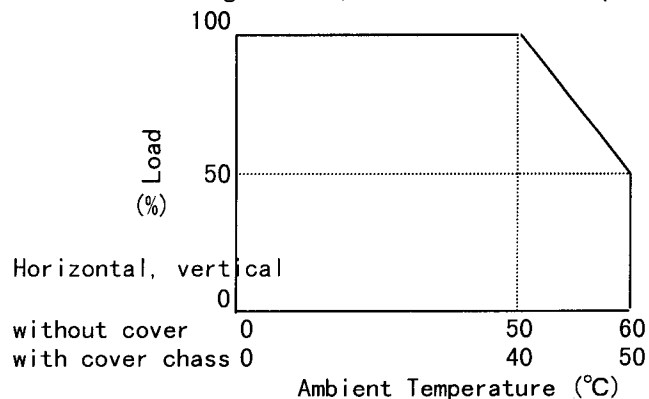


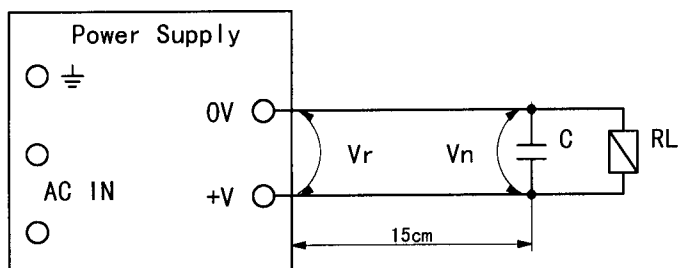
FIG.1 Derating Curve (Load vs ambient Temperature) vertical



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KLT30F SERIES SPECIFICATIONS

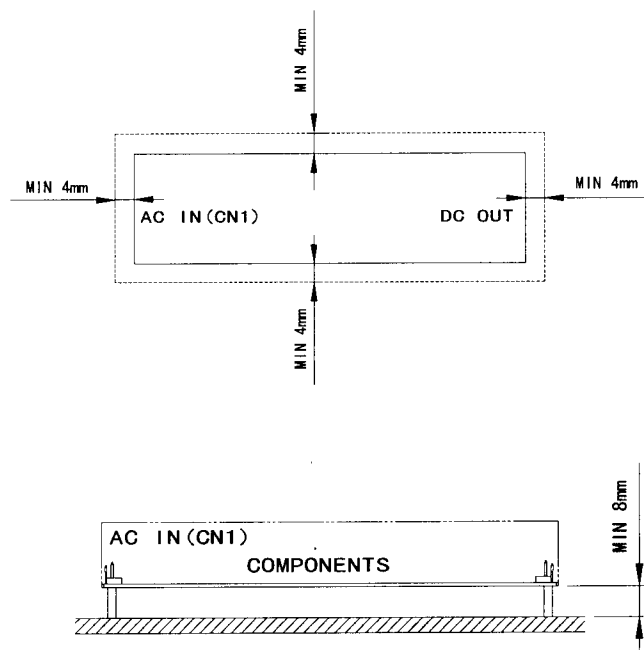
Measurement Circuit

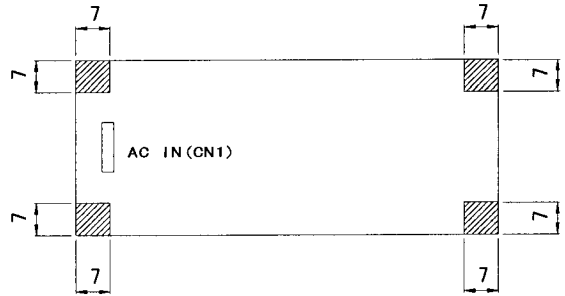


V_r : Output voltage, line and load regulation
 V_n : Ripple and Noise (with Bayonet probe)
 C : 0.1 μ F film capacitor and 47 μ F electrolytic capacitor)

Caution

- * Do not use in overcurrent condition or short mode.
- * There are differ ground line from CH1 to CH2, CH3.
- * Using too large of capacitor (10,000 μ F) on your load may prevent the power supply from providing the rated output voltage.
- * Do not use output wattage of CH1, CH2, CH3 more than rated wattage
- * When installing the components or laying out the pattern around the unit, maintain the distance below. If this distance can not be kept, insert an insulation sheet between them.



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Mounting Use M3 screw for fix this unit.  parts is permitted to use metal chassis and screw.  unit (mm)				
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NIIGATA FACTORY				