Ordering information

240









High voltage pulse noise type : NAP series Low leakage current type : NAM series *A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- I/O Terminals ②Single output
- 3 Output wattage Universal input ⑤Output voltage ® Option
- C : with Coating N2: Screw mounting

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	KLEA/KLNA240F-24	KLEA/KLNA240F-48
MAX OUTPUT WATTAGE[W]	240	240
DC OUTPUT	24V 10A	48V 5A

SPECIFICATIONS

	MODEL		KLEA/KLNA240F-24	KLEA/KLNA240F-48	
INPUT	VOLTAGE[V]		AC85 - 264 1 \(\phi \) (Output derating is required) *8		
	OUDDENITE AT	ACIN 115V	2.4typ		
	CURRENTIAL	ACIN 230V	1.3typ		
	FREQUENCY[Hz]		50 / 60 (45 - 66)		
	EFFICIENCY[0/]	ACIN 115V	88typ		
	EFFICIENCY[%]	ACIN 230V	90typ		
	POWER FACTOR	ACIN 115V	0.98typ		
		ACIN 230V	0.90typ		
	INRUSH CURRENT[A] A	ACIN 115V	20typ (Io=100%)(at cold start Ta=25℃)		
	*1 ACIN 230V		40typ (Io=100%)(at cold start Ta=25°C)		
	LEAKAGE CURRENT[mA]		0.45 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
	VOLTAGE[V]		24	48	
	CURRENT[A]		10	5	
	LINE REGULATION[m	1 V] *2	96max	192max	
	LOAD REGULATION[mV] *2	150max	300max	
	RIPPLE[mVp-p] *3	0 to +70°C	150max	150max	
		-20 - 0°C	240max	240max	
	DIDDI F NOISE[mVn_n] *3	0 to +70°C	180max	180max	
ОИТРИТ		-20 - 0°C	300max	300max	
	TEMPERATURE REGULATION[mV]	0 to +70°C	240max	480max	
		-20 to +70°C	290max	600max	
	DRIFT[mV]	*4	96max	192max	
	START-UP TIME[ms]		500typ (ACIN 115V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		21.60 to 26.40	43.20 to 52.80	
	OUTPUT VOLTAGE SETTING[V]		24.00 to 24.96	48.00 to 49.92	
PROTECTION	ON OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
CIRCUIT AND	OVERVOLTAGE PROTECTION[V]		27.60 to 33.60	54.00 to 67.20	
OTHERS	DC_OK LAMP		LED (Green)		
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
	INPUT-PE		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
	OUTPUT-PE		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP., HUMID. AND	ALTITUDE	-20 to +70°C (Required to Derating), 20 - 90%RH (Non condensing)		
	STORAGE TEMP., HUMID. AND A	LTITUDE	-30 to +85°C, 20 - 90%RH (Non condensing)		
	VIBRATION	*7	10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60 minutes along Z axis (Non operating, mounted on DIN Rail)		
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis (Packing state)		
SAFETY AND	AGENCY APPROVAL	S	UL60950-1, C-UL (CSA60950-1), EN60950-1, UL508, Complies with DEN-AN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B		
REGULATIONS	HARMONIC ATTENUA	ATOR	Complies with IEC61000-3-2 (Class A) *5		
OTHERS	CASE SIZE	*6	50×124×117mm (W×H×D) [1.97×4.88×4.61 inches]		
	WEIGHT		750g max		
	COOLING METHOD		Convection		

- The value is primary surge. The current of input surge to a built-in EMI/EMC *4
 Filter(0.2ms or less) is excluded.

 Please contact us about dynamic load and input response.
 This is the value that measured on measuring board with capacitor of 22 µF *5
 and 0.1 µF at 150mm from output terminal.

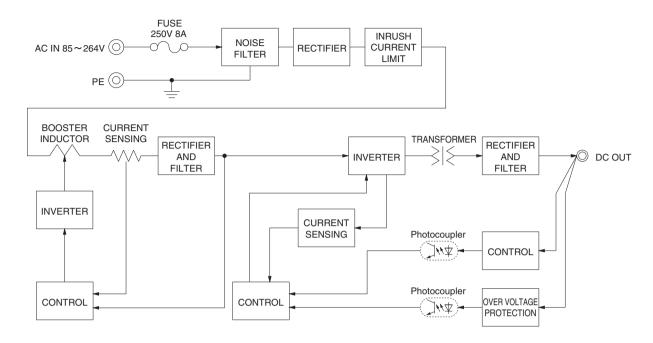
 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to *7
 KEISOKU-GIRKN: RM103).
 Please refer to the instruction manual 2.5.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 °C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.
- Case size contains neither the umbo.

 Only as standard mounting orientation (A). Refer to the instruction manual 4.1. If install other than standard mounting orientation (A), please fix the power supply for withstand the vibration and impact.
- Please contact us about DC input voltage.

 To meet the specifications. Do not operate over-loaded condition. A sound may occur from power supply at light or peak loading.



Block diagram



External view

<KLEA240F(Euro Style I/O Terminals)>

< KLNA240F(Barrier Blocks Style I/O Terminals)>

