

Measures: 4.88 x 4.77 x 1.50"

COSEL **AC-DC Power Supplies DIN Rail Type**

Ordering information



eco





*The EMI/EMC Filter is recommended to connect with several devices.

②Single output
③Output wattage
④Universal input
⑤Output voltage

® Option C: with Coating N2: Screw mounting

MODEL	KLEA/KLNA120F-24	KLEA/KLNA120F-48		
MAX OUTPUT WATTAGE[W]	120	120		
DC OUTPUT	24V 5A	48V 2.5A		

SPECIFICATIONS

	MODEL		KLEA/KLNA120F-24	KLEA/KLNA120F-48	
INPUT	VOLTAGE[V]		AC85 - 264 1 \(\phi\) (Output derating is required) *9		
	CURRENT[A]	ACIN 115V	1.2typ		
		ACIN 230V	0.6typ		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EEEIOJENOV(9/1	ACIN 115V	86.5typ		
	EFFICIENCY[%]	ACIN 230V	88.0typ		
	POWER FACTOR INRUSH CURRENT[A] *1	ACIN 115V	0.98typ		
		ACIN 230V	0.90typ		
		ACIN 115V	20typ (Io=100%)(at cold start Ta=25℃)		
		ACIN 230V	40typ (lo=100%)(at cold start Ta=25℃)		
	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]		5	2.5	
	LINE REGULATION[mV] *2		96max (Io=30-100%) *8	192max (Io=30-100%) *8	
	LOAD REGULATION[mV] *2	150max (Io=30-100%) *8	300max (Io=30-100%) *8	
		0 to +70℃	150max	150max	
	RIPPLE[mVp-p] *3	-20 - 0°C	240max	240max	
		lo=0 - 30%	500max	650max	
		0 to +70℃	180max	180max	
OUTPUT	RIPPLE NOISE[mVp-p] *3	-20 - 0°C	300max	300max	
		lo=0 - 30%	500max	650max	
	TEMPERATURE REGULATION[mV]	0 to +70℃	240max	480max	
		-20 to +70℃	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 F	RANGE[V]	21.60 to 26.40	43.20 to 52.80	
	OUTPUT VOLTAGE SETT	ING[V]	24.00 to 24.96	48.00 to 49.92	
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
CIRCUIT AND	D 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		-30 to +85°C, 20 - 90%RH (Non condensing)		
				9.6m/s² (2G), 3minutes period, 60 minutes along Z axis (Non operating, mounted on DIN Rail)	
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis (Packing state)		
SAFETY AND	AGENCY APPROVALS 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		Complies with IEC61000-3-2 (Class A) *5		
	CASE SIZE	*6	38×124×117mm (W×H×D) [1.5×4.88×4.61 inches]		
	WEIGHT		580g max		
	COOLING METHOD		Convection / Forced air		

- The value is primary surge. The current of input surge to a built-in EMI/EMC
 Filter() 2 ms 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
 and 0.1 µF at 150mm from output terminal.
 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to
 EKESICKI-OREN: RM103).
 Please refer to the instruction manual 2.5.

 ### Of the value is primary surge. The current of input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

 ### Or it is the change in DC output for an eight hour period after a half-hour
 warm-up at 25C, with the input voltage held constant at the rated input/
 output.

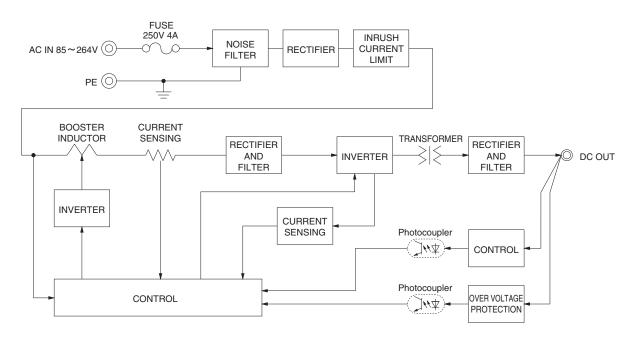
 ### Or it is the change in DC output for an eight held con

- Burst operation at 30% load or less.
 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.



Measures: 4.88 x 4.77 x 1.50"

Block diagram



External view

<KLEA120F(Euro Style I/O Terminals)>

< KLNA120F(Barrier Blocks Style I/O Terminals)>

