

Measures: 5.26 x 4.77 x 1.46"

COSEL

AC-DC Power Supplies DIN Rail type

KHEA series

Ordering information







High voltage pulse noise type : NAP series Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

1)Series name
Single output
3)Output wattage
①Universal input
5)Output voltage
B)Option
C: with Coating
N2: Screw mounting

MODEL	KHEA120F-24	KHEA240F-24	KHEA480F-24
MAX OUTPUT WATTAGE[W]	120	240	480
DC OUTPUT	24V 5A (Peak 7.5A)	24V 10A (Peak 15A)	24V 20A (Peak 30A)
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SPECIFICATIONS

	MODEL		KHEA120F-24	KHEA240F-24	KHEA480F-24		
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC120 - 370		AC85 - 264 1 ¢ *11 *12		
		ACIN 115V	1.2typ	2.3typ	4.6typ		
	CURRENT[A]	ACIN 230V	0.6typ	1.2typ	2.3typ		
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63) or DC		50 / 60 (47 - 63)		
		ACIN 115V	90typ	92typ	92typ		
	EFFICIENCY[%]	ACIN 230V	92typ	94typ	94typ		
	POWER FACTOR INRUSH CURRENT[A]	ACIN 115V	0.98typ	0.98typ	0.98typ		
		ACIN 230V	0.93typ	0.93typ	0.93typ		
		ACIN 115V	15typ (at cold start Ta=25℃)	20typ (more than 3 sec. to re-start)	1 31		
	*1	ACIN 230V	30typ (at cold start Ta=25°C)	40typ (more than 3 sec. to re-start)			
	LEAKAGE CURRENT[mA]		0.45 / 0.75max 0.75 / 1.5max				
			(ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)				
	VOLTAGE[V]		24	24	24		
	CURRENT[A]		5	10	20		
	PEAK CURRENT[A]	*2	7.5	15	30		
	LINE REGULATION[n		96max		96max (Io=30-100%) *10		
	LOAD REGULATION[mV] *3				150max (Io=30-100%) *10		
		0 to +70℃			120max		
	RIPPLE[mVp-p] *5	-25 - 0°C	240max		240max		
	Kii i EE[iii vp-p]		240max *4		500max		
		0 to +70°C	150max		150max		
OUTPUT	RIPPLE NOISE[mVp-p] *5		300max		300max		
	KIFFEE NOISE[IIIVP-P]		300max *4		600max		
		0 to +70°C	240max *4				
		-25 to +70 ℃			240max 360max		
	DRIFT[mV] *6				96max		
	START-UP TIME[ms]				750max (ACIN 115V, Io=100%)		
	HOLD-UP TIME[ms]				20typ (ACIN 115V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]				22.5 to 26.4		
			24.0±1.0%		24.0±1.0%		
OUTPUT VOLTAGE SETTING[V] OVERCURRENT PROTECTION			1 - 1				
			Works over 101% of peak current and recovers automatically 30.0 to 36.0				
PROTECTION CIRCUIT AND			LED (Green)				
OTHERS	ALARM LAMP		LED (Red)				
OTTLENO			Relay contact 30VDC 1A max, 30VAC 0.5A max (resistive load)				
	DC_OK CONTACT INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	INPUT-PE				•		
ISOLATION			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT-RC, DC OK		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)				
	OPERATING TEMP.,HUMID.AND ALTITUDE		-25 to +70°C (Required to Derating), 20 - 90%RH (Non condensing)				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +85°C, 20 - 90%RH (Non condensing)				
			10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60 minutes along Z axis (Non operating, mounted on DIN Rail)				
	IMPACT	***		operating, mounted on Div Haii)			
SAFETY AND	AGENCY APPROVALS (At only	v AC input)	196.1m/s² (20G), 11ms, once each X, Y and Z axis (Packing state) UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178, UL508, ANSI / ISA12.12.01 Complies with DEN-AN				
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B				
REGULATIONS	HARMONIC ATTENU						
OTHERS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A) *7				
	CASE SIZE *8		[1.46×4.88×4.61 inches]	[1.97×4.88×4.61 inches]	[2.76×4.88×4.61 inches]		
	WEIGHT		580g max	900g max	1,200g max		
	COOLING METHOD		Convection / Forced air	1 000g max	1,200g max		
	COOLING METHOD		CONTROCTION / TOTOGG an				

- The value is primary surge. The current of input surge to a built-in EMI/EMC Filter() 2ms or less)is excluded. Refer to 3, instruction manual. Please contact us about dynamic load and input response. The output voltage is below 23.5V, the value is equal to three times of the specification. This is the value that measured on measuring board with capacitor of 22 µF and 0.1 µF at 150mm from output terminal. When the contact is about about another class. See the contact us about another class. See Case size contains neither the umbo.
- Only as standard mounting orientation (A). Refer to the instruction manual 5.1. If install other than standard mounting orientation (A), please fix the power supply for withstand the vibration and impact.

 Burst operation at 30% load or less.

 Output derailing is required. Please refer to the instruction manual 5.2.

 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.

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