

Measures: 5.26 x 4.77 x 1.46""

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

KHEA series

Ordering information **KHE**







N2: Screw mounting

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

Docties Haitle
Single output
Output wattage
Universal input
Output voltage
Option -
C: with Coating

	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)

SPECIFICATIONS

	MODEL		KHEA120F-24	KHEA240F-24	KHEA480F-24	
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC120 - 370		AC85 - 264 1 \$\phi\$ *11 *12	
		ACIN 115V	1.2typ	2.3typ	4.6typ	
	CURRENT[A]	ACIN 230V	0.6typ	1.2typ	2.3typ	
	FREQUENCY[Hz]		50 / 60 (47 - 63) or DC	,	50 / 60 (47 - 63)	
		ACIN 115V	90typ	92typ	92typ	
	EFFICIENCY[%]	ACIN 230V	92typ	94typ	94typ	
INPUT		ACIN 115V	0.98typ	0.98typ	0.98typ	
	POWER FACTOR	ACIN 230V	0.93typ	0.93typ	0.93typ	
	INRUSH CURRENT[A]	ACIN 115V	15typ (at cold start Ta=25°C)	20typ (more than 3 sec. to re-start)	10.00.76	
	*1	ACIN 230V	30typ (at cold start Ta=25℃)	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	10	96max (Io=30-100%) *10	
	LOAD REGULATION[mV] *3				150max (Io=30-100%) *10	
			100111		120max	
	RIPPLE[mVp-p] *5	-25 - 0°C	240max		240max	
	KIFFEE[IIIVP-P] *3				500max	
		0 to +70°C	240max *4		150max	
OUTPUT	DIDDLE NOIDE				300max	
	RIPPLE NOISE[mVp-p] *5		300max		600max	
			300max *4			
			240max *4		240max	
	-25 to +70°C		1111		360max	
	DRIFT[mV] *6 START-UP TIME[ms]		96max 96max			
					750max (ACIN 115V, Io=100%)	
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)		20typ (ACIN 115V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		22.5 to 28.5		22.5 to 26.4	
	OUTPUT VOLTAGE SETTING[V]		24.0±1.0% 24.0±1.0%			
	OVERCURRENT PROTE			Vorks over 101% of peak current and recovers automatically		
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	30.0 to 36.0			
CIRCUIT AND	ALARM LAMP		LED (Green)			
OTHERS			LED (Red)			
	DC_OK CONTACT		Relay contact 30VDC 1A max, 30VAC 0.5A max (resistive load)			
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
ISOLATION			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			
			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)			
	OUTPUT-RC, DC_OK		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room To		iemperature)	
			-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 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	IMPACT	101 "	196.1m/s ² (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			
SAFETY AND	AGENCY APPROVALS (At only		7.	A12.12.01 Complies with DEN-AN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B			
REGULATIONS	HARMONIC ATTENU	ATOR				
	CASE SIZE	*8	37×124×117mm (W×H×D)	50×124×117mm (W×H×D)	70×124×117mm (W×H×D)	
OTHERS			[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 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter(0.2ms or less)is excluded.

 *2 Refer to 3. instruction manual.

 *3 Please contact us about dynamic load and input response.

 *4 The output voltage is below 23.5V, the value is equal to three times of the specification.

 *5 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 KEISOKU-GiKEN: RM103).
 Please refer to the instruction manual 2.7.
 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 5.1. If install other than standard mounting orientation (A), please fix the power supply for withstand the wibration and impact.

 Burst operation at 30% load or less.

 Output derating 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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