





KR-series



Feature

Redundancy module
For DIN (35mm) rail products
Wide input voltage range
Wide operating ambient temperature range
Input voltage balance OK LED
Input voltage OK LED and relay output

Safety agency approvals

UL60950-1, UL508, C-UL (CSA60950-1), EN60950-1

CE marking

Low Voltage Directive RoHS Directive

EMI

June 29, 2020

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B

EMS Compliance : EN61204-3, EN61000-6-2

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-6

5-year warranty

KRE -20A / -40A







①Series name KRE: Euro style I/O terminals ②Output current

MODEL	KRE-20A	KRE-40A
DC OUTPUT CURRENT	20	40
DC PEAK OUTPUT CURRENT	30	60

SPECIFICATIONS

	MODEL	KRE-20A	KRE-40A	
INPUT	VOLTAGE[V]	DC10 ~ 60	DC10 ~ 30	
	CURRENT[A]	10 (×2 Input)	20 (×2 Input)	
	PEAK CURRENT[A]	15 (×2 Input) 30 (×2 Input)		
	INPUT-OUTPUT POTENTIAL DIFFERENCE[V]	0.6typ (Ta=25°C ,Io=100%)	0.4typ (Ta=25°C ,Io=100%)	
ОИТРИТ	CURRENT[A]	20	40	
	PEAK CURRENT[A] *1	30	60	
FUNCTION	DC_OK LAMP	LED (Green)		
	Balance_OK LAMP	LED (Green)		
	DC_OK CONTACT	Relay contact 30VDC 0.5Amax , 30VAC 0.5Amax (resistive load)		
ISOLATION	INPUT-OUTPUT-Chassis	AC1,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)		
	INPUT-OUTPUT-DC_OK	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)		
	DC_OK-Chassis	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-25 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing)		
	STORAGE TEMP., HUMID. AND ALTITUDE	-25 to +85°C, 20 - 90%RH (Non condensing)		
	VIBRATION *2	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	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1, UL508		
	CE MARKING	LVD		
OTHERS	CASE SIZE *3	38×124×117mm (W×H×D) [1.5X4.88X4.61 inches]		
	WEIGHT	480g max	610gmax	
	COOLING METHOD	Convection		

- Refer to 2, instruction manual.

 Only as standard mounting orientation (A). Refer to the "Assembling and Installation Method".

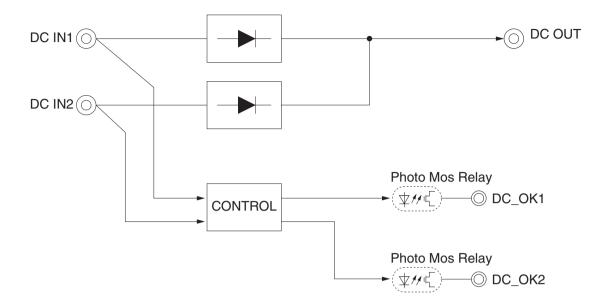
 If install other than standard mounting orientation (A), please fix the power supply for withstand the vibration and impact. Case size contains neither the umbo.

 To meet the specifications. Do not operate over-loaded condition.

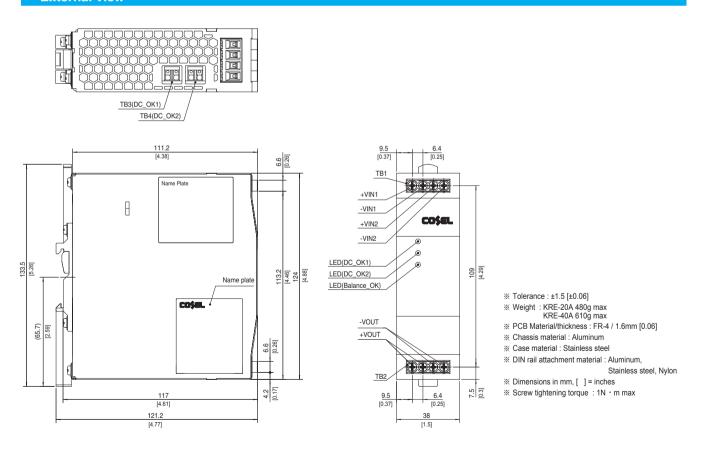




Block diagram

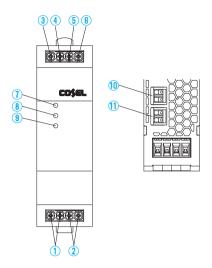


External view



Terminal Blocks

KRE-20A/-40A



Terminal Number	Terminal Name	Function		
1	+VOUT	+Output Terminals		
2	-VOUT	-Output Terminals		
3	+VIN1	+Input Terminals 1		
4	-VIN1	-Input Terminals 1		
5	+VIN2	+Input Terminals 2		
6	-VIN2	-Input Terminals 2		
7	DC_OK1	LED for input voltage 1 confirmation		
8	DC_OK2	LED for input voltage 2 confirmation		
9	Balance_OK	LED for input voltage balance confirmation		
10	DC_OK1	Input voltage 1 confirmation (relay contact)		
11)	DC_OK2	Input voltage 2 confirmation (relay contact)		

Assembling and Installation Method

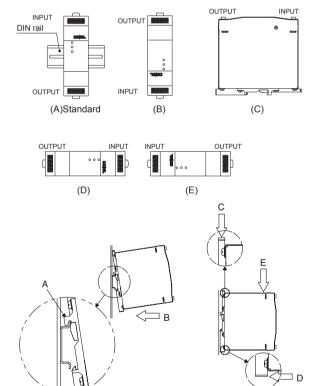
Installation method

- ■About DIN-Rail Attachment available with DIN EN60715 TH 35 (35×7.5mm or 35×15mm) (Top hat shaped DIN rail)
- ■Below shows mounting orientation.

 If install other then standard mounting orientation (A), please fix the power supply for withstand the impact and vibration.

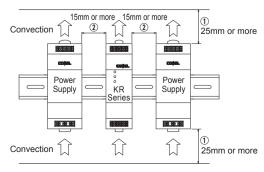
■When you mount a power supply on a DIN rail, have the area marked A catch one side of the rail and push the unit to the direction of B. To remove the power supply from the rail, either push down the area marked C or insert a tool such as driver to the area marked D and pull the unit apart from the rail.

When you couldn't remove the unit easily, push down the area marked C while lightly pushing the unit to the direction of E.



- ■Shown below the notes about installation clearance of a unit.
- ① Installation clearance at above and below the unit.

 Please have clearance of at least 25mm above and below the unit to avoid heat accumulation.
- ②Installation clearance at the side of the unit.
 Please have clearance of at least 15mm side the unit to avoid interfering with heat radiation from housing.



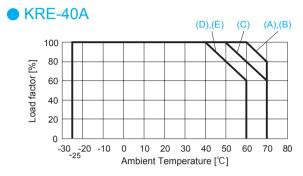


Derating

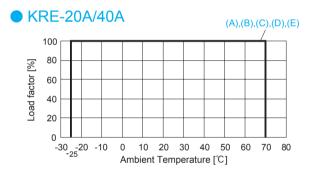
Ambient temperature derating

- ■The operative ambient temperature as different by input voltage.Derating curve is shown below.
- ■Derating Curve (Convection)
- ■Refer to instruction manual 3 for Ambient temperature measurement point.

 KRE-20A (C),(D),(E)(A),(B)100 80 Load factor [%] 60 40 20 n -30₋₂₅-20 -10 0 10 20 30 40 50 60 Ambient Temperature [°C]



- ■Derating Curve (Forced air)
 - *UL508 (Listing) is excluded.
- ■Use the temperature measurement point as shown in instruction manual 3. Please use at the temperature dose not exceed the values in instruction manual 3.



Instruction Manual

◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual https://en.cosel.co.jp/product/powersupply/KR/ Before using our product https://en.cosel.co.jp/technical/caution/index.html





Basic Characteristics Data

Model	Circuit method	PCB/Pattern		
		Material	Single sided	Double sided
KRE-20A	Diode	FR-4		Yes
KRE-40A	Diode	FR-4		Yes

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