

PART NUMBER: VKG series

DESCRIPTION: single output dc-dc converter

features

- built-in heatsink
- high density
- 2:1 input range
- high reliability
- over-temp protection
- undervoltage lockout
- designed for rectified 220 V ac and 380 V ac
- overload protection
- long life
- six side metal shielding
- 1000 V dc isolation
- able to withstand high vibration and shock
- perfectly suited for: transportation, mining, power plant, and power distribution



model number	input voltage	input range	output voltage	output current	ripple & noise	efficiency
VKG100-D300-S05	300	200-400	5 V dc	20 A	50 mVpp	87%
VKG150-D300-S12	300	200-400	12 V dc	12.5 A	120 mVpp	89%
VKG200-D300-S15	300	200-400	15 V dc	13.3 A	150 mVpp	90%
VKG250-D300-S24	300	200-400	24 V dc	10.4 A	200 mVpp	91%
VKG300-D300-S48	300	200-400	48 V dc	6.25 A	400 mVpp	92%
VKG500-D300-S15	300	200-400	15 V dc	33.3 A	150 mVpp	90%
VKG100-D600-S05	600	400-800	5 V dc	20 A	50 mVpp	87%
VKG150-D600-S12	600	400-800	12 V dc	12.5 A	120 mVpp	89%
VKG200-D600-S15	600	400-800	15 V dc	13.3 A	150 mVpp	90%
VKG250-D600-S24	600	400-800	24 V dc	10.4 A	200 mVpp	91%
VKG300-D600-S48	600	400-800	48 V dc	6.25 A	400 mVpp	92%
VKG500-D600-S24	600	400-800	24 V dc	20.8 A	200 mVpp	91%

INPUT

input voltage range	300 V dc 600 V dc	200-400 V dc 400-800 V dc
input reversal protection	built-in, requires an input fuse	

OUTPUT

voltage accuracy	±1%
ripple & noise	<1% Vo
line regulation	±0.2%
load regulation	±0.4%
temperature coefficient	±0.01%/°C
current limit, % nominal output	120%
transient response	200 µs

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GENERAL SPECIFICATIONS

efficiency		see table
isolation voltage	input-output	1000 V dc
	input-case	1000 V dc
	output-case	1000 V dc
isolation resistance		500 MΩ
switching frequency		160-200 KHz
operating temperature range		-25°C to +80°C
storage temperature		-45°C to +105°C
operating humidity		5% - 85% RH
storage humidity		5% - 95% RH

DIMENSIONS (inches)

