## **GKF-150 Series**

## **Features**

- · Universal AC input range
- Built-in Active PFC function, PF > 0.95
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/OVP/SCP/OTP/OPP
- Wide operating ambient temperature (-20°C~70°C)
- · All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- Easy assembling from top side
- · PCB soldering side with conformal coating
- · Suitable for critical applications
- 3 year warranty





## **SPECIFICATIONS**

MODEL			GKF-150-12	GKF-150-15	GKF-150-24	GKF-150-48
ОИТРИТ	DC Output		12V	15V	24V	48V
	Rated Current		12.5A	10A	6.3A	3.2A
	Current Range (NOTE 1)		0 ~ 12.5A	0 ~ 10A	0 ~ 6.3A	0 ~ 3.2A
	Ripple and Noise (NOTE 2)	0 ~ 70°C	≤ 100mV	≤ 100mV	≤ 100mV	≤ 100mV
		-20°C ~ 0°C	≤ 200mV	≤ 200mV	≤ 200mV	≤ 200mV
	Voltage ADJ. Range		10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	43.2 ~ 52.8V
	Voltage Accuracy		±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±2.0%	±2.0%	±1.0%	±1.0%
	Set-up Time		≤ 3S@115Vac, ≤ 2S@230Vac			
	Hold up Time		≥ 10mS (220Vac input, Full load)			
	Temperature Coefficient		±0.03%/°C			
	Overshoot and Undershoot		< 5.0%			
INPUT	Voltage Range		90Vac ~ 264Vac			
	Frequency Range		47Hz - 63Hz			
	Power Factor (Typical)		PF > 0.98@115Vac, PF > 0.95@230Vac			
	Efficiency (Typical) 230Vac input		≥ 86%	≥ 87%	≥ 87%	≥ 88%
	AC Current (max.)		< 2A			
	Inrush Current (Typical)		< 30A@115Vac			
	Leakage Current		Input – output: ≤ 0.25mA Input – PG: ≤ 3.5mA			
PROTECTION	Over Load		105% ~ 150% of rated output current, hiccup mode, auto recovery			
	Over Power		105% ~ 150% of rated output current, hiccup mode, auto recovery			
	Over Voltage		115% ~ 150% of rated output current, hiccup mode, auto recovery			
	Short Circuit		Long-term mode, auto recovery			
ENVIRONMENT	Operating amb. Temp. & Hum.		-20°C ~ 70°C; 20% ~ 90%RH No Condensing (refer to the derating curve)			
	Storage Temp. & Hum.		-30°C ~ 85°C; 10% ~ 95%RH No Condensing			
SAFETY & EMC (NOTE 3)	Safety Standards		UL60950-1 2nd Ed; IEC 60950-1:2005 (2nd Ed); EN60950-1:2006			
	Withstand Voltage		Primary - Secondary: 3.0KVac; ≤10mA Primary - PG: 1.5KVac; ≤10mA Secondary - PG: 0.5KVac; ≤10mA			
	Isolation Resistance		100M ohms			
	EMS Emission		Compliance to EN55022 Class B			
	Harmonic Current		Compliance to EN61000-3-2, Class D			
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level			
OTHERS	MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25°C, Full load)			
	Dimension (L*W*H)		160 x 98.3 x 38 mm			
	Packing		20PCS/CTN, 14KGS, 0.04CBM			
	Cooling Method		Cooling by free air convection			
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature</li> <li>Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 10uF parallel capacitor</li> <li>The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives</li> </ol>					

## **GKF-150 Series**



