


Features:

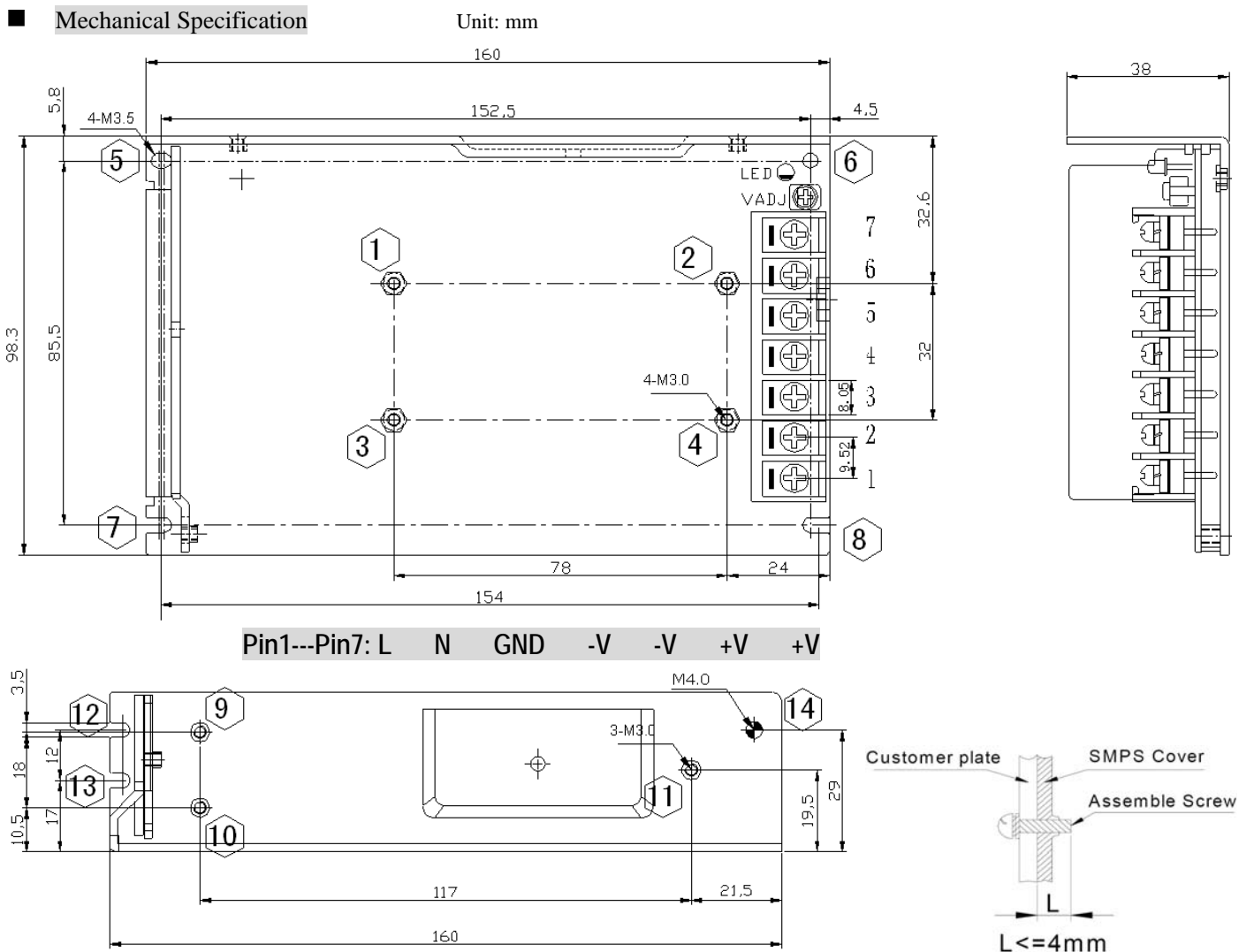
- Universal AC input range
- Built-in Active PFC function, PF>0.95
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/OVP/SCP/OTP/OPP
- Wide operating ambient temp (-20°C~70°C)
- All using 105°C long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

SPECIFICATION

MODEL		GKF-150-12	GKF-150-15	GKF-150-24	GKF-150-48	
OUTPUT	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	0~70°C	≤100mV	≤100mV	≤100mV	≤100mV
		Note 2 -20~0°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 full load				
	Hold up Time	≥10mS (220Vac input, Full load)				
	Temperature Coefficient	±0.03%/°C				
Overshoot and Undershoot	<5.0%					
INPUT	Voltage Range	90Vac~264Vac, 120~370Vdc				
	Frequency Range	47Hz~63Hz				
	Power factor (typical)	PF>0.98@115Vac, PF>0.95@230Vac				
	Efficiency (Typical)	230Vac input	≥86%	≥87%	≥88%	≥88%
		115Vac input	≥82.5%	≥82.5%	≥85%	≥83.9%
	AC Current (max.)	<2 A				
	Inrush Current (Typical)	<30A/115Vac, <45A/230Vac Cold start				
Leakage Current	Input—output: ≤0.25mA	Input—PG: ≤3.5mA	(input 264Vac, 63Hz)			
PROTECTION	Over Load	13.125~18.75A	10.5~17A	6.93~9.45A	3.36~4.8A	
		Protection type: Hiccup mode, auto recovery				
	Over power	160~225W	160~255W	160~225W	160~225W	
		Protection type: Hiccup mode, auto recovery				
	Over Voltage	14~18V	17.8~22.5V	27~36V	52.5~72V	
		Protection type: Hiccup mode, auto recovery				
Over Temperature	105°C±5°C (detect on Mosfet temperature); shut down, auto recovery after the temperature goes down to 50°C					
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: 0.5KVDC/10mA.				
	Isolation Resistance	10M 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)	160×99×38mm				
	Packing	20PCS/CTN, 14KGS, 0.04CBM				



	Cooling method	Cooling by free air convection
NOTE	<ol style="list-style-type: none">1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on http://www.powerld.com.cn.	

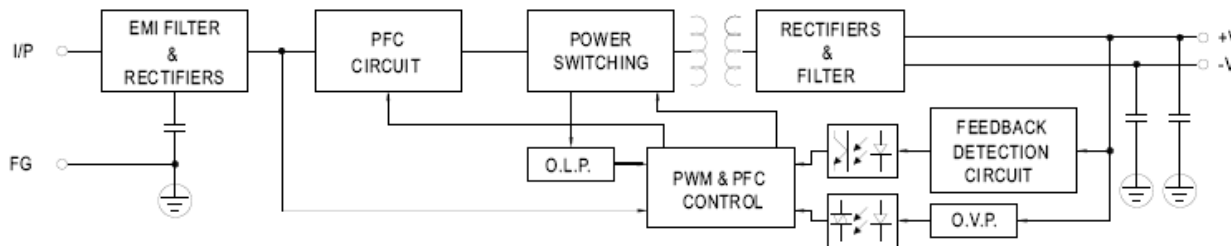


Mounting method	Mounting holes	Screw specs	L max	Torque max
Bottom	1~4	M3	4mm	12Kgf.cm
	5~8	M3	/	10Kgf.cm
Side	9~11	M3	4mm	6.5Kgf.cm
	12~14	M3	/	10Kgf.cm

1.AC terminal blocks installation information			
Terminal No.	Function	Wire Specs	Torque max
1	L	22-12AWG	7.5Kgf.cm
2	N		
3	PG		

2.DC terminal blocks installation information			
Terminal No.	Function	Wire Specs	Torque max
4~5	V-	22-12AWG	7.5Kgf.cm
6~7	V+		

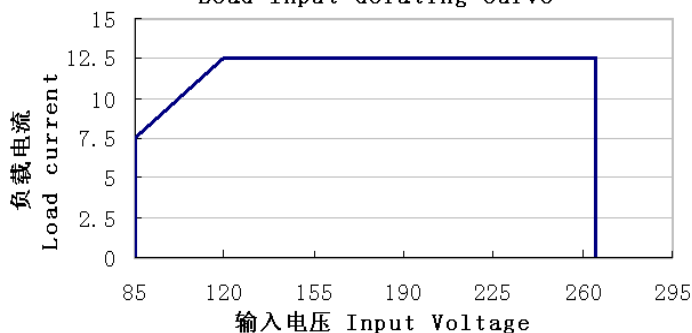
■ **Block Diagram**



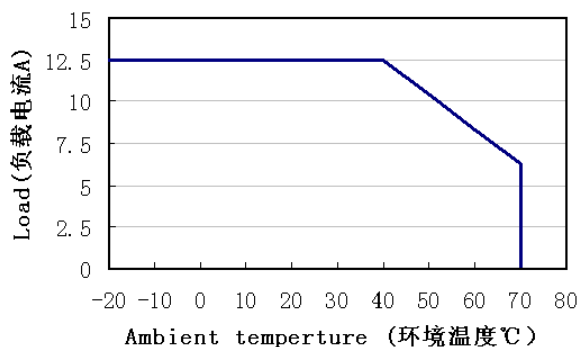
■ **Derating Curve**

GKF-150-12:

负载电流-输入电压降额曲线
Load-Input derating curve

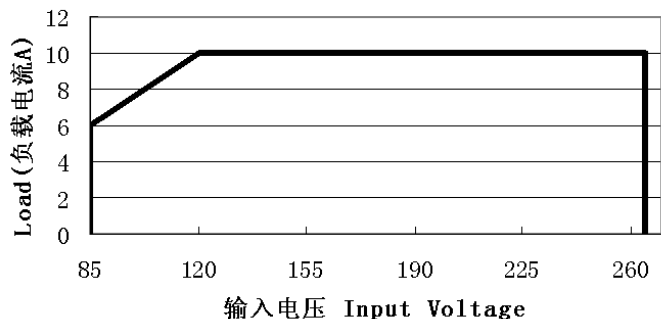


负载电流-环境温度降额曲线

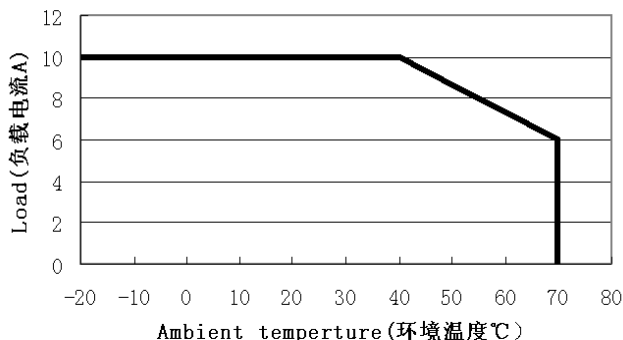


GKF-150-15:

负载电流-输入电压降额曲线
Load-Input derating curve

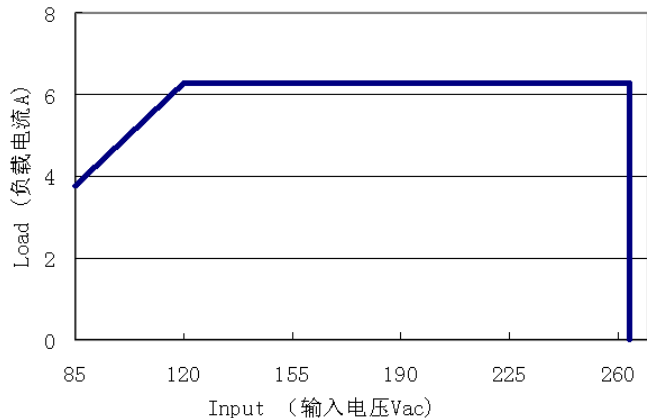


负载电流-环境温度降额曲线

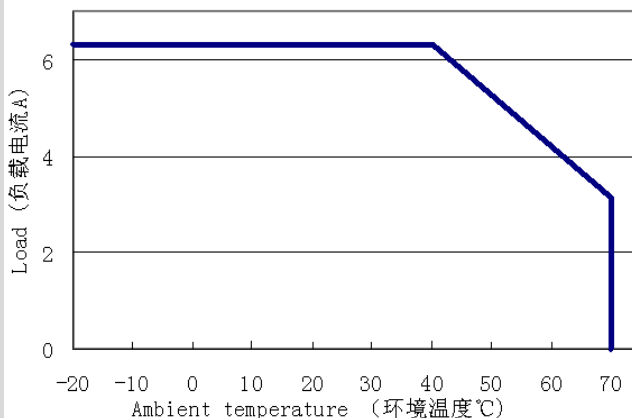


GKF-150-24:

Load-Input derating curve
(负载电流-输入电压降额曲线)

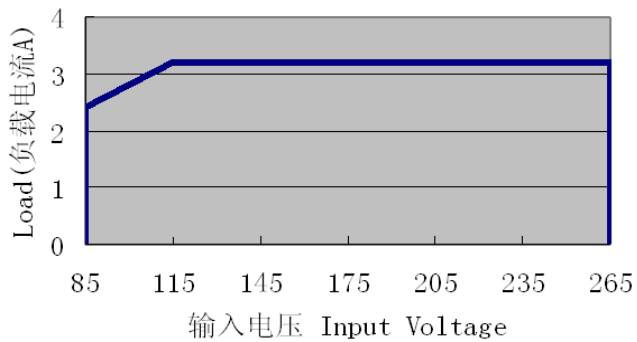


Load-Ambient derating curve
(负载电流-环境温度降额曲线)



GKF-150-48:

负载电流-输入电压降额曲线
Load-Input derating curve



负载电流-环境温度降额曲线

