

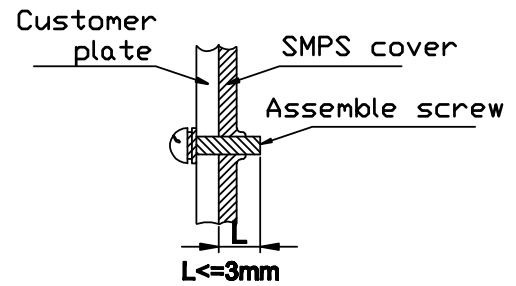
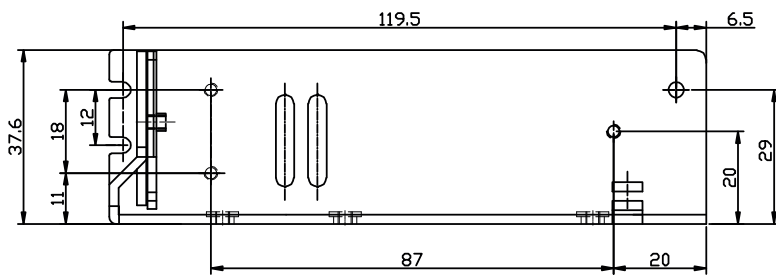
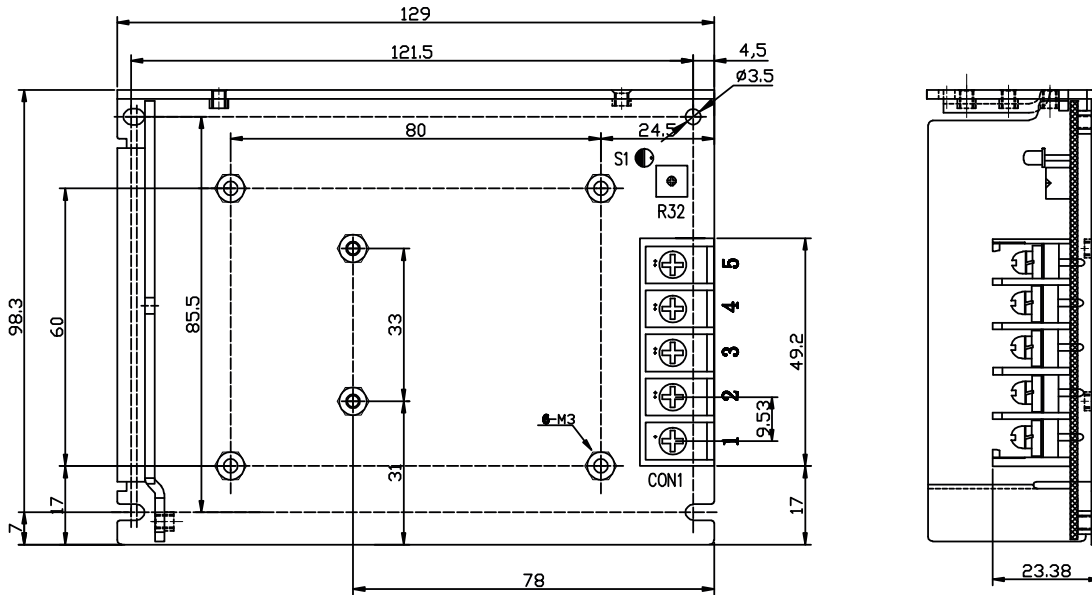
**Features:**

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.93
- Miniature Size, High Efficiency, and High Reliability
- Output Protections: OLP/OPP/SCP
- Withstand 300VAC Surge Input for 5 Sec
- Suitable for critical applications
- Wide operating ambient temperature (-20°C~60°C)
- PCB soldering side with conformal coating
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test



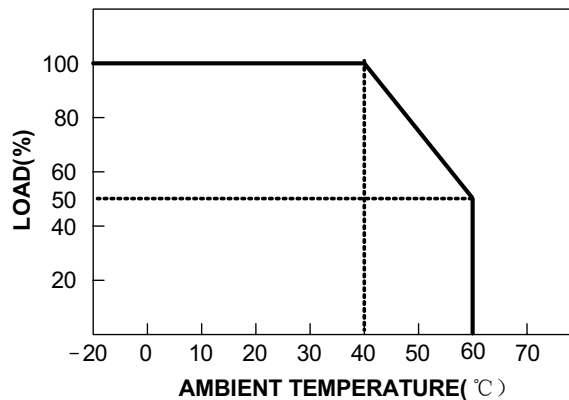
Model	QGKF-100-5	QGKF-100-12	QGKF-100-24	QGKF-100-48
<b>Output Characteristics</b>				
DC Output	5V	12V	24V	48V
Rated Current	20A	8.5A	4.2A	2.2A
Current Range (Note 1)	0~20A	0~8.5A	0~4.2A	0~2.2A
Ripple and Noise (Note 2)	0~60°C	≤150mV	≤150mV	≤150mV
	-20~0°C	≤150mV	≤150mV	≤200mV
Voltage ADJ. Range	3.3V~5.5V	10V~15V	21V~27V	43.2V~52.8V
Voltage Accuracy	±2.0%	±2.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±2.0%	±2.0%	±1.0%	±1.0%
Set-up Time	≤4.0s (115VAC input, full load) ≤2.0s (230VAC input, full load)			
Hold-up Time	≥12ms (230VAC input, full load)			
Temperature Coefficient	±0.03%/°C			
Overshoot and Undershoot	<5.0%			
<b>Input Characteristics</b>				
Voltage Range	90VAC~264VAC			
Frequency Range	47Hz~63Hz			
Power Factor (Typical)	PF>0.98/115VAC PF>0.93/230VAC			
Efficiency (Typical) 230VAC Input	84%	87%	88%	88%
AC Current (max)	<1.5A			
Inrush Current (Typical)	<30A@115VAC Cold start <50A@230VAC Cold start			
Leakage Current	Input-Output: <0.25mA Input-PG: <3.5mA			
<b>Protection</b>				
Over Load (OLP)	110%~150% of rated output current, hiccup mode, auto recovery			
Over Power (OPP)	110%~150% of rated output power, hiccup mode, auto recovery			
Short Circuit (SCP)	Long-term mode, auto recovery			
<b>Environmental Characteristics</b>				
Operating Amb. Temp. & Hum	-20°C~60°C; 20%~90% RH Non-Condensing			
Storage Temp. & Hum	-30°C~85°C; 10%~95% RH Non-Condensing			
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	100M ohms			
EMI Conduction & Radiation	Compliance to EN55022 Class B			
Harmonic Current	Compliance to EN61000-3-2, Class A			
EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; heavy industry level			
<b>General Characteristics</b>				
MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)			
Dimension (LxWxH)	129x98.3x37.6mm			
Packing	30PCS/CTN. G.W: 14.6kgs			
Cooling Method	Cooling by free air convection			
Note	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at rated input, rated load, and 25°C of ambient temperature</li> <li>2. Measured at 20MHz of bandwidth by using a 12" Twisted pair wire terminated with a 0.1uF &amp; 47uF parallel capacitor</li> <li>3. 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>			

## MECHANICAL SPECIFICATIONS



Pin No.	Assignment
1	AC-L
2	AC-N
3	F.G
4	DC output -V
5	DC output +V

## DERATING CURVE



UNIT: mm