SPG100 SERIES

FEATURE:

- International AC Input Range
- Soft-Start Circuit, Limiting AC Surge
- Protection: Short circuit/Over load/
  Over voltage/Over temperature
- Built in EMI Filter, Low Ripple Noise
- Built in PFC Circuit to meet IEC61000-3-2
- Compliance to UL1950, EN60950
- MTBF 100Khrs Min., MIL-HDBK-217F (25℃)
- Remote On/Off Control (Option)
- Can be installed on DIN rail TS-35/7.5 or 15(Option)
- Cooling by free air convection
- 100% Full Load Burn-in Test
- Three Years Warranty

SPECIFICATIONS:

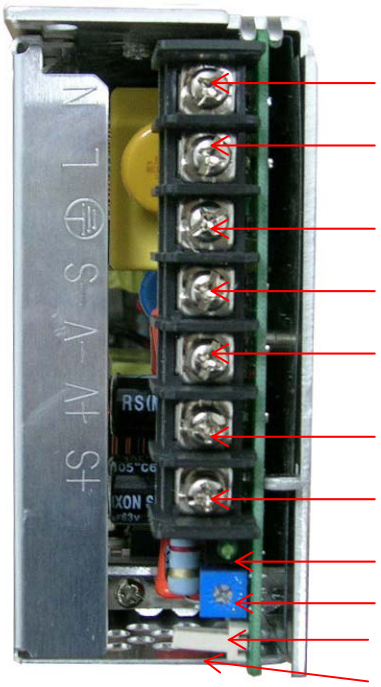
Model			YF-SPG100 5V-54V
INPUT	Voltage Range		85-264VAC(1φ) or 120-340VDC
	AC Current	V_{in}=100VAC	1.4A typ
		V_{in}=200VAC	0.7A typ
	Frequency		47～63 Hz
	Efficiency		80～87% typ
	Power Factor	V_{in}=100VAC	0.99typ (I_o=100%)
		V_{in}=200VAC	0.95typ (I_o=100%)
	Inrush Current	V_{in}=100VAC	20 Atyp (I_o =100%,At cold state)
		V_{in}=200VAC	40 Atyp (I_o =100%,At cold state)
	Leakage Current		1.5mA max (60Hz,According to UL,CSA,VDE AND DEN-AN)
OUTPUT	DC Voltage		5～54VDC
	Current		20～1.85 A
	Line Regulation		20～200mV max
	Load Regulation		40～250mV max
	Ripple	0～+50℃*1	80～150mVp-p max
		-10～0℃*1	140～200mVp-p max
	Ripple Noise	0～+50℃*1	120～400mVp-p max
		-10～0℃*1	160～600mVp-p max
	Temperature Regulation	0～+50℃	50～500 mV max
		-10～0℃	60～600 mV max
	Drift *2		20～200 mV max
	Start-Up Time		500mS max (V_{in}=85VAC, I_o =100%)
	Hold-Up Time		20mS typ (I_o=100%)
	Output Voltage Adjustment Range		±10%
PROTECTION CIRCUIT AND OTHERS	Over Current Protection		Work over 105% of rating and recovers automatically
	Over Voltage Protection		Works at 115-140% of rating
	Operating Indication		LED(GREEN)
	Remote Sensing		Provided
	Remote ON/OFF		Optional(Refer to Instruction Manual)
ISOLATION	Input-Output.RC*3		AC3000V 1minute, Cutoff current=20mA, DC500V 50MΩ min (At room temperature)
	Input-FG		AC2000V 1minute, Cutoff current=20mA, DC500V 50MΩ min (At room temperature)
	Output.RC-FG*3		AC500V 1minute, Cutoff current=100mA, DC500V 50MΩ min (At room temperature)
	Output-RC*3		AC100V 1minute, Cutoff current=100mA, DC100V 10MΩ min (At room temperature)
ENVIRONMENT	Operating Temperature, Humidity and Altitude		-10～+65℃,20～90% RH(Non condensing)(Refer to DERATION CURVE), 3,000m(10,000feet)max
	Storage Temperature, Humidity and Altitude		-20～+75℃,20～90% RH(Non condensing), 9,000m(3,000feet)max
	Vibration		10～55HZ,19.6m/s^2(2G), 3minutes period, 60minutes each along X,Y and Z axis
	Impact		196.1m/s^2(20G), 11ms, once each X,Y and Z axis
Safety and Noise Regulations	Safety Standard		Compliance to UL1950,EN60950,VDE0160,CSA C22.2 N_0.234Complies with DEN-AN and IEC60950
	Conducted Emission		Compliance to FCC-B,CISPR22-B,EN55022-B,VCCI-B
	Radiated Emission		Compliance to FCC-B,CISPR22-B,EN55022-B,VCCI-B
	Harmonic Attenuator		Compliance to IEC61000-3-2
OTHERS	Case Size		45×99×179mm (without terminal block)(W×H×D)
	Weight		900g max (without cover)
	Cooling Method		Convection

*1: According to 20MHz oscilloscope or Ripple-Nose meter (equivalent to KEISKU-GIKEN: RM101)

*2: Drift is change in DC output for an eight hour period after a half-hour warm-up at 25℃,with the input voltage held constant at the rated input/output.

*3: Applicable when Remote ON/OFF (optional) is added.

TERMINALBLOCK:



N：Input terminal，Neutral line

L：Input terminal，Live line (Fuse in line)

FG：Frame Ground（Safety Earth）

－S：－Remote sensing terminal

－V：－Output terminal

＋V：＋Output terminal

＋S：＋Remote sensing terminal

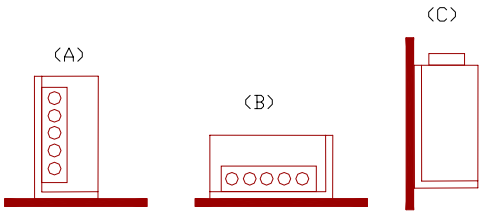
Output monitoring indicator（Green LED）

Output voltage adjustment trimmer

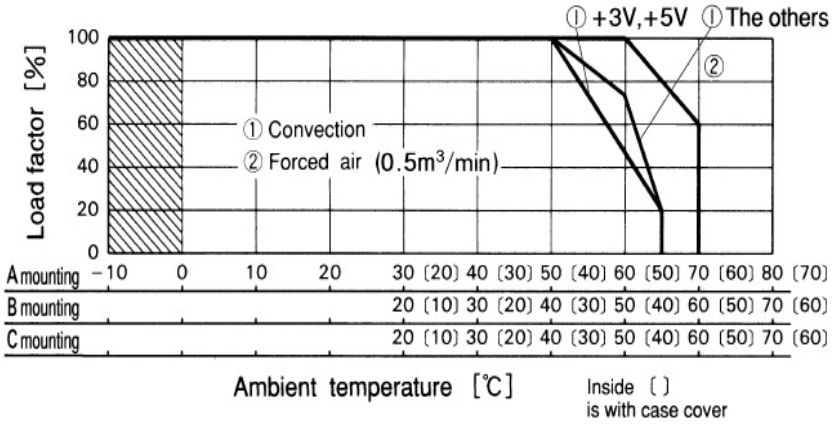
–R：-Remote ON/OFF control

+R：+Remote ON/OFF control

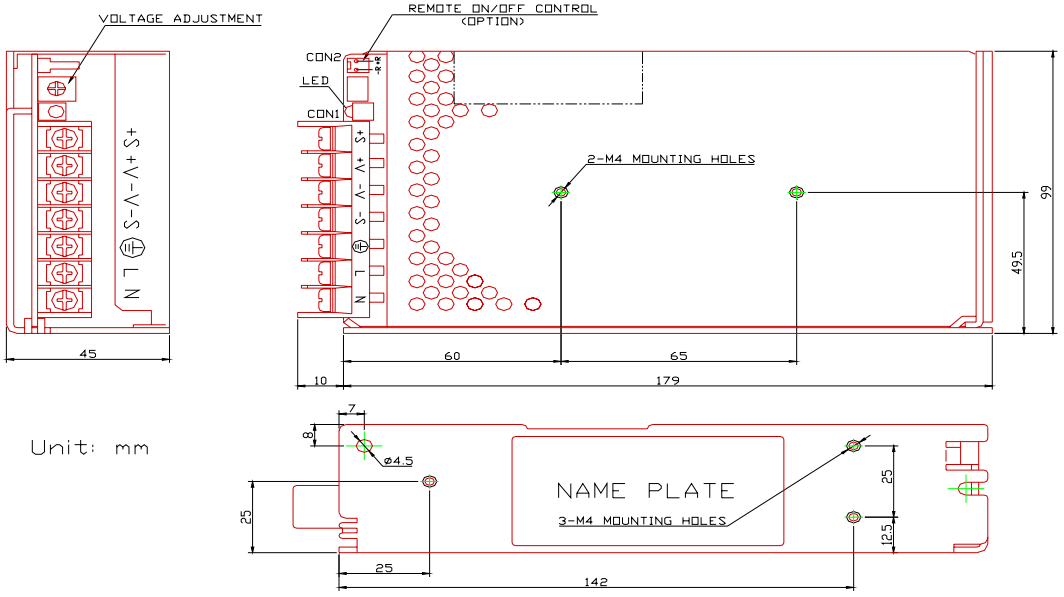
MOUNTING METHOD:



DERATING CURVE:



OUTLINE DRAWING:



Unit: mm