

SAMWHA Electric's new screw terminal type series

To improve main 2000 hours at 85°C screw terminal series GT, development of **GY series** has been finalized.

Improvement of GT series has been made each year on long life with GF series for 5000 hours' and with GL series for 20000 hours' applications. However, GY series is first improvement in **both ripple currents and sizes**. Available in 450 volts at temperature range of **-25°C ~ +85°C**, development of GY series improved highly from GT series. Comparing with 450 volts 3900µF of GT series GY has **size of 5mm smaller** and **ripple current of 23% higher**.

Series	Voltage (WV)	Capacitance (µF)	Diameter (Φ)	Height (mm)	Ripple Current (A rms)
GT	450	3900	76.2	100	12.8 @ 85°C 120Hz
GY	450	3900	76.2	95	15.7 @ 85°C 120Hz

Ideal for smoothing circuits for general purpose **inverters**, **control circuits** for F.A. machines and **input filter capacitor for current in Uninterruptible Power Supplies (UPS)**, GY series will follow the market's demand trend of miniaturization and improved characteristics.

● Key Features



Item	Characteristics	
Operating temperature range	-25 ~ +85°C	
Capacitance tolerance	±20% at 120Hz, 20°C	
Leakage current max.	I=3√CV (µA) (after 5 minutes)	
Dissipation factor max.	0.25 max. at 120Hz, 20°C	
Load life (after application of the rated voltage for 2000 hours at 85°C)	Leakage current	Less than specified value
	Capacitance change	Within ±20% of initial value
	tanδ	Less than 300% of specified value
Shelf life (at 85°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4	

● Dimensions and maximum permissible ripple current

WV Item µF	450	
	ØD×L (mm)	Ripple current (A rms) 85°C 120Hz
2700	63.5 × 90	11.6
3300	63.5 × 105	13.3
3900	63.5 × 115	15.1
	76.2 × 95	15.7
4700	63.5 × 135	17.8
	76.2 × 105	17.7
5600	76.2 × 115	20.0
6800	76.2 × 135	23.2
8200	89 × 125	24.8
10000	89 × 150	29.7