



Features:

- Universal AC input: 90-305VACBuilt-in active PFC Function: >0.92
- Protections: SCP/OCP/OVP/OTP
- IP67/IP65 sealing design for outdoor or indoor installations, and cooling by free air convection
- Built-in constant current limiting circuit (CV+CC model) ,output current/voltage adjustable
- Optional for 1~10Vdc, resistor or PWM signal 3 in1 dimming function
- Suitable for LED lighting , Street lighting , Display applications
- Suitable for wet/damp/dry/cold temperature/high temperature locations
- High efficiency up to 91%
- 6000V lighting surge protection
- High reliability: Adopt RAGU patent potting technology for glue stress release
- Compliance to UL60950-1, IEC60950& UL8750 safety regulations
- 5 years warranty (Note .9)



RG75-W1C XXX SH X: Note: X can be A,T,B, the output current is XXX/100

- A: IP65 rated , Output current and voltage level can be adjustable through internal potentiometer.
- T: IP67 rated, Output current level adjustable through output cable with 1-10Vdc or PWM signal or resistance.
- B: IP67 rated, Without dimming or adjustable function, connected with input/output cable .

SPECIFICATION

	MODEL	RG75-W1C320SHX	RG75-W1C200SHX	RG75- W1C160SHX								
	DC VOLTAGE	24V	36V	48V								
	RATED CURRENT	3.2A	2.0A	1.6A								
	VOLT RANGE AT CC OUTPUT	14.4~24V	21.6∼36V	28.8∼48V								
	RATED POWER	75W	75W	75W								
	RIPPLE&NOISE Note.2	150mvP-P	200mvP-P	300mvP-P								
	VOLTAGE RANGE Note.5	22~27V	33~40V	43∼53V								
		Can be adjusted by internal potentiometer , A type only										
OUTPUT	CURRENT ADJ RANGE	1.9∼3.2A	1.2~2.0A	1.0∼1.6A								
	VOLTAGE TOLERANCE Note.3	\pm 1%										
	LINE REGULATION	±0.5%										
	LOAD REGULATION	$\pm 0.5\%$										
	SETUP,RISETIME Note.7	2500ms 80ms (at full load) 230VAC/115VAC										
	HOLD UP TIME (typ.)	16ms (at full load) 230VAC/115VAC										
	EFFICIENCY (Typ.)	89.0% 90.0% 91.0%										
	VOLTAGE RANGE Note.4	90~305VAC										
	FRENQUECY RANGE	47~63Hz										
INPUT	POWER FACTOR(Typ.)	PF>0.98/115VAC PF>0.95/230VAC PF>0.92/277VAC(at full load)										
	AC CURRENT (Typ.)	0.84A/115VAC										
	INRUSH CURRENT (Type.)	Cold start 60A(twidth=425us at 50% Ipeak)/230VAC										
	LEACKAGE CURRENT	<0.75mA/277VAC										
	OVER CURRENT	95~108%										
	OVER CORREIVE	Protection type: constant current limiting, recovers automatically after fault condition is removed										
PROTEC	SHORT CIRCUIT Hiccup type, recovers automatically after full condition is removed											
TION	OVER VOLTAGE	28~34V 41~46V 54~60V										
HON		Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery										
	OVER TEMP	100°C ±10°C										
	0.1212	Protection type: shut down output	t, recovers automatically after temp	Protection type: shut down output, recovers automatically after temperature goes down to definite level								



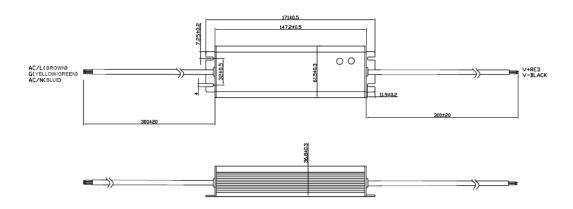
75W Single Output LED Power Supply

RG75 Series

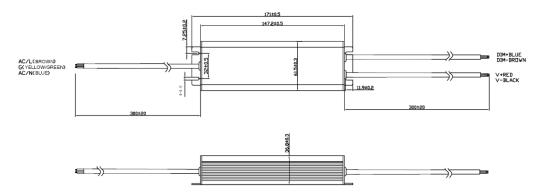
	WORK TEMP	-40°C ~70°C (Refer to "derating curve")							
ENVIRO	WORK HUMIDITY	$5{\sim}95$ %RH non-condensing							
LIVINO	STORAGE TEMP.,HUMIDIT	-40∼+80℃,10~95%RH							
MENT	TEMP.COEFFICIENT	±0.03%/℃(0~50℃)							
	VIBRATION	10-500Hz,5G 12 min./1 cycle, period for 72min. each along X,Y,Z axes							
SAFETY&	SAFETYSTANDAR Note.6	CE/CBStandard :EN/IEC61347-1 EN/IEC61347-2-13 UL Standard: UL8750 & UL1012 design refer to UL60950							
	SAFETYSTANDAR Note.6	UL60950 IEC60950 GB4943							
EMC	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG 100MOhms/500VDC/25 °C /70%RH							
	EMC EMISSION	EN55015, EN55022 (CISPR22) Class B CE/EMC Standard: EN55015, EN61000-3-2/3; FCC Standard: FCC Part							
	EMC IMMUNITY	EN61000-4-2,3,4,5,6,8,11 EN61547 EN55024 (Surge 6KV)							
OHERS	MTBF	≥250Khrs MIL-HDBK-217F(25°C)							
	DIMENSION	171*61.5*37.0mm(L*W*H)							
	PACKING	0.70kg; 12pcs/8.4kg/0.74CUFT							
		y mentioned are measured at 230VAC input , rated load and 25 $^{\circ}$ ambient temperature .							
	2. Ripple&Noice are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &47uf parallel capacitor.								
NOTE	3. Tolerance: includes set up tolerance, line regulation and load regulation.								
	4. Derating may be needed under low input voltages . Please check the static characteristics for more details .								
	5. Only A type								
	6. Safety and EMC design refer to EN60598-1 , subject 8750(UL) ,CNS15233 ,GB7000.1 , FCC part18.								
		sured at cold first start , Turning ON/OFF the power supply may lead to increase of the set up time							
	8. The power supply is considered as a component that will be operated in combination with final equipment, Since EMC performance will be affected by the								
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again								
	Refer to warranty statemen	t.							

■ Mechanical Specification

• RG75 A-type

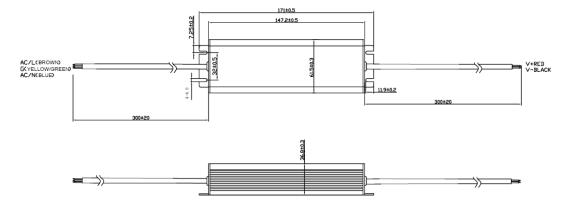


● RG75 T-type





RG75 B-type

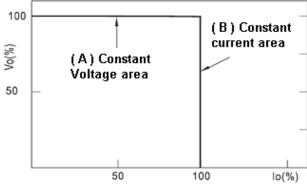


■ DRIVING METHODES OF LED MODULE

There are two major kinds of LED driver method "Directive drive" and "with LED driver"

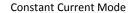
A typical LED power supply may either work in "constant voltage model (CV) or constant current model (CC)" to drive the LEDs .

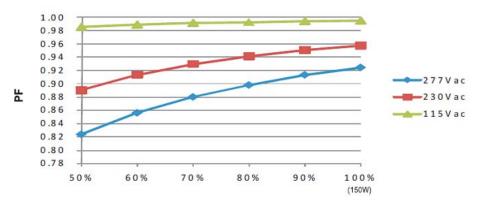
RAGU's LED power supply with CV+CC characteristic can be operated at both CV mode (with LED driver , at area(A) and CC mode(direct driver at area (B) .



Typical LED power supply I-V curve

■ Power Factor Characteristic





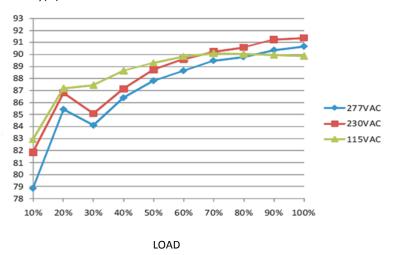
http://www.brightway-tech.com



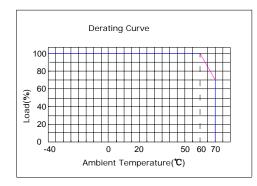
■ EFFICIENCY VS LOAD (48V model)

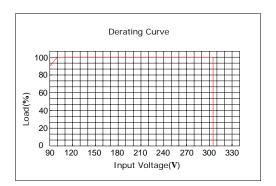
RG75 Series possess superior working efficiency that up to 94% can be reached in field applications .

Efficiency(%)



DERATING CURV





■ DIMMING OPERATION (for T-type only)

- ♦ Bulit-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor or 1-10Vdc or 10V PWM signal between DIM+ and DIM-
- ♦ Please DO NOT connect "DIM-" to "-V" .

Refer to resistance value for output current adjustment (Typical) .

resistance value (KΩ)	10	20	30	40	50	60	70	80	90	100	OPEN
Percentage of rated	10	20	30	40	50	60	70	80	90	100	95~108
current (%)											



1~10Vdimming function for output current adjustment (Typical)

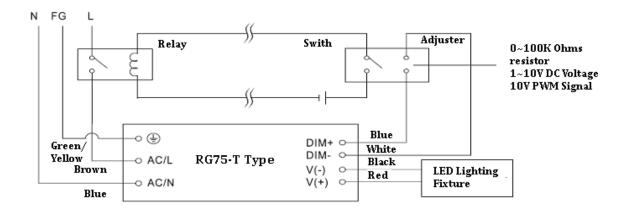
Dimming value(V)	1	2	3	4	5	6	7	8	9	10	OPEN
Percentage of rated	10	20	30	40	50	60	70	80	90	100	95~108
current (%)											

10V PWM signal for output current adjustable (Typical): Frequency range 100Hz~~3KHz

Duty value(%)	10	20	30	40	50	60	70	80	90	100	OPEN
Percentage of rated	10	20	30	40	50	60	70	80	90	100	95~108
current (%)											

- ♦ Using the built-in dimming function on T-type model can't turn the lighting fixture totally dark . Please refer to the connection method below to achieve 0% brightness of the lighting fixture connection to the LED power supply unit .
- ♦ Direct connecting to LEDs is suggested , but is not suitable for using additional drivers .

Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture

- 1.Output constant current level can be adjusted through output cable by connecting a resistor or 1-10Vdc or PWM signal between DIM+ and DIM-
- 2. The LED lighting fixture can be turned ON/OFF by the switch .