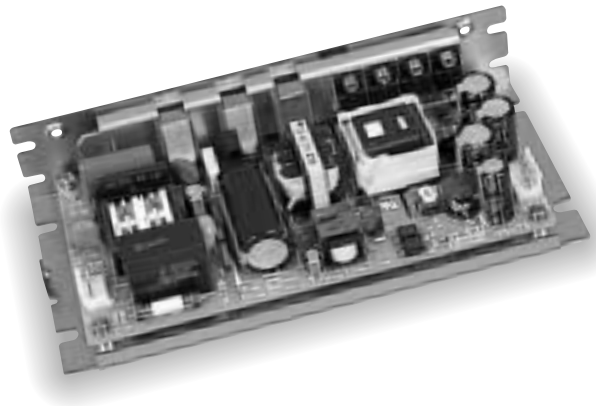
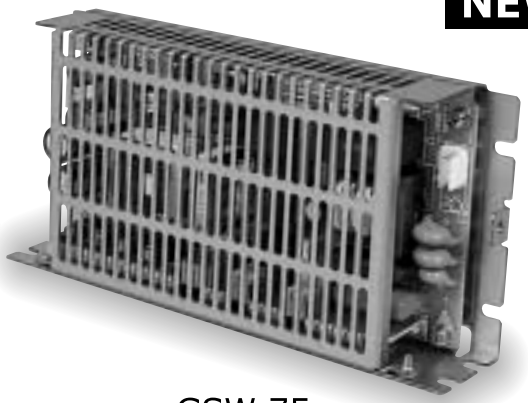
Rubycon

GSW75

NEW





GSW 75

FEATURES

* Resonant switchers, power factor correction and main converter
* Power factor correction up to 0.99, meeting IEC61000-3-2(EN61000-3-2)
* 85 to 264VAC universal input
* High efficiency up to 90%
* Low EMI, meeting FCC B, CISPR B
* Over temperature Protection

SAFETY STANDARDS

UL1950 Recognized
CSA22.2 No.950 Certified (cUL)
EN60950 (NEMKO Certified)
CE mark (LVD only)

APPLICATIONS

*Data/information processing equipment
*FA control equipment
*Measuring, inspection and testing equipment
*Communication equipment
*Optical equipment
*Peak loads (for Motor Drive, Lamp) *6

GSW75 SPECIFICATIONS

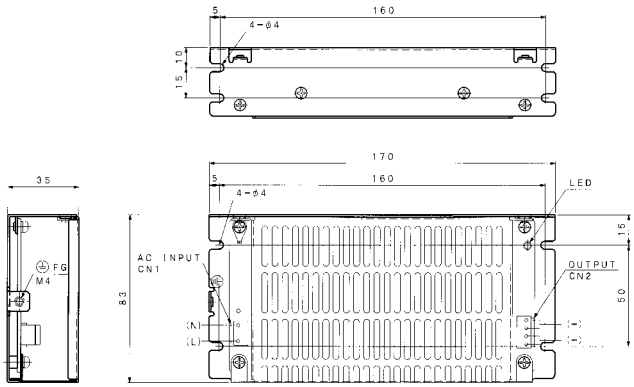
	ITEM		GSW75-5	GSW75-12	GSW75-15	GSW75-24
1	Rated output DC voltage		5V	12V	15V	24V
2	Rated output DC current (Peak *6)		0.7～15A (—)	0～6.3A (9.4A)	0～5.0A (7.5A)	0～3.2A (4.7A)
3	Maximum output power (Peak *6)		75W (—)	75.6W (112.8W)	75W (112.5W)	76.8W (112.8W)
4	Adjustable voltage range	*1	Fixed	11.7～12.6V	14.7～15.75V	23.5～25.2V
5	Efficiency(120/230V AC, TYP)	*1	80%/82%	82%/83%	83%/84%	84%/85%
6	Maximum ripple noise		50mVpp	120mVpp	150mVpp	200mVpp
7	Over current protection	*3	15.5A ～	9.5A ～	7.6A ～	4.8A ～
8	Over voltage protection	*4	5.75V ～	13.8V ～	17.3V ～	27.6V ～
9	Input voltage range		85V ～ 264VAC			
10	Input frequency range		47Hz ～ 63Hz			
11	Input current	*1	0.9A (100VAC) , 0.4A (230VAC)			
12	Power factor	*1	0.99TYP (100VAC), 0.95TYP (230VAC)			
13	Inrush current	*2	20Apk MAX (120VAC), 40Apk MAX (240VAC)			
14	Hold-up time	*5	20msMIN			

NOTES
*1 When maximum output is worked
*2 When cold start works with rated voltage at 25℃ ambient temperature
*3 Recovers automatically
*4 Recovers on input again
*5 When maximum output is worked, after last AC line peak
*6 (Peak) : Peak Loads for 10 seconds or less are acceptable. Input voltage range AC170V ~ AC264V only.

GSW75 GENERAL SPECIFICATIONS

	ITEM	
1	Maximum line / load regulation	±0.5%
2	Voltage tolerance ratio	±3% at line, load, time, temperature
3	Operating temperature	-10 ～ 60°C (Refer to Output derating)
4	Operating humidity	30 ～ 90%RH (Non condensing)
5	Storage temperature	-30 ～ 85°C
6	Storage humidity	10 ～ 95%RH (Non condensing)
7	Cooling	Convection or forced air cooling (Refer to Output derating)
8	Electric strength voltages	Input - Output 3000VAC 1 minute , Input - FG 1500VAC 1 minute , Output - FG 500VAC 1 minute
9	Insulation resistance	100MΩ MIN DC500V 25°C 70%RH Input - Output, Input - FG, Output - FG
10	Leakage current	0.5mA MAX (240VAC, 50Hz)
11	Vibration	10～55Hz 2G (3 directions each 1 hour)
12	Shock	20ms 20G (3 directions each 3 times)
13	Safety standards	UL1950, CSA950(cUL), EN60950(NEMKO) Approvals
14	Conduction noise	Meeting FCC Class B, EN55022 Class B, VCCI Class B
15	Harmonic distortion	Meeting EN61000-3-2
16	Mains surge	Meeting EN61000-3-5 Level 3/4KV(CM),2KV(DM)
17	Dimensions	83(W) 170(D) 35(H) mm / 3.27"(W) 6.7"(D) 1.38"(H)
18	Weight	450g / 0.99lb. TYP

GSW75 OUTLINE DRAWING



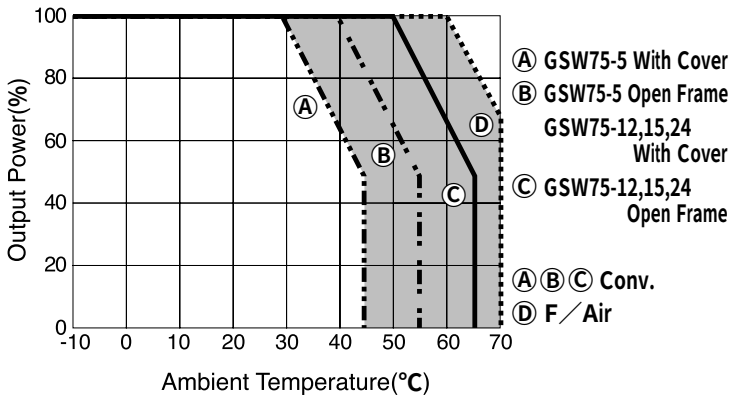
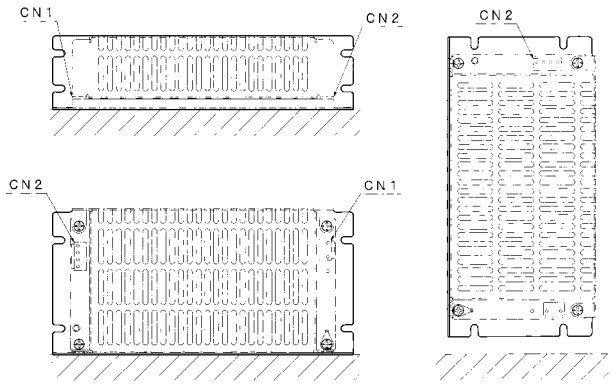
Connectors Used

Part Description	Part Name	Manufacturer	Q.T.Y
CN1 Pin Header (Input side)	B2P3-VH or B3P5-VH	JST	1
CN2 Pin Header (Output side)	B4P-VH	JST	1

Matching Housings and Pins (Not included with the product)

Part Description	Part Name	Manufacturer	Q.T.Y
CN1 Socket Housing	VHR-3N or VHR-5N	JST	1
CN2 Socket Housing	VHR-4N	JST	1
(CN1, CN2) Terminal Pins	BVH-21T-P1.1	JST	6 or 7

GSW75 OUTPUT DERATING



Mounting Direction(conv)