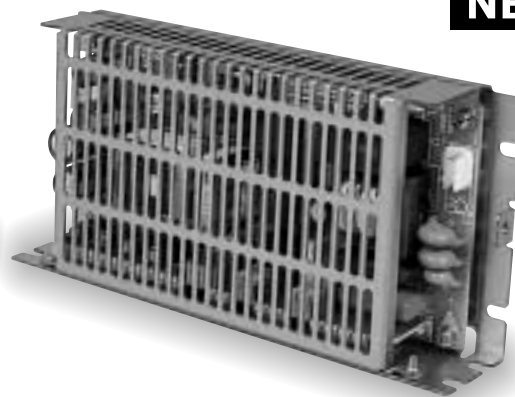
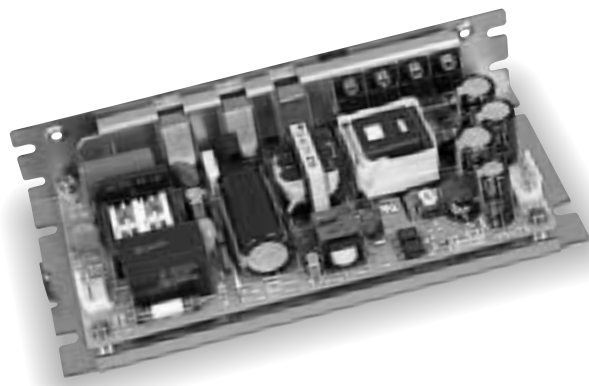


# GSW75

**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

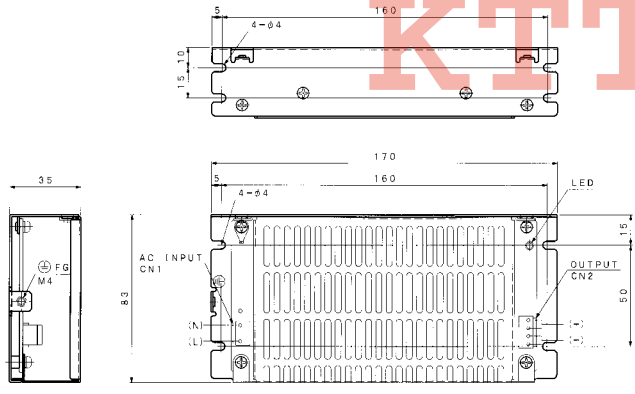
- \*1 When maximum output is worked
- \*2 When cold start works with rated voltage at 25 ambient temperature
- \*3 Recovers automatically
- \*4 Recovers on input again
- \*5 When maximum output is worked, after last AC line peak
- \*6 (Peak) : Peak Loads for 10 seconds or less are acceptable. Input voltage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

# GSW75

## 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 (Refer to Output derating)   |
| 4    | Operating humidity             | 30 ~ 90%RH (Non condensing)   |
| 5    | Storage temperature            | -30 ~ 85  |
| 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          | 100M MIN DC500V 25 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



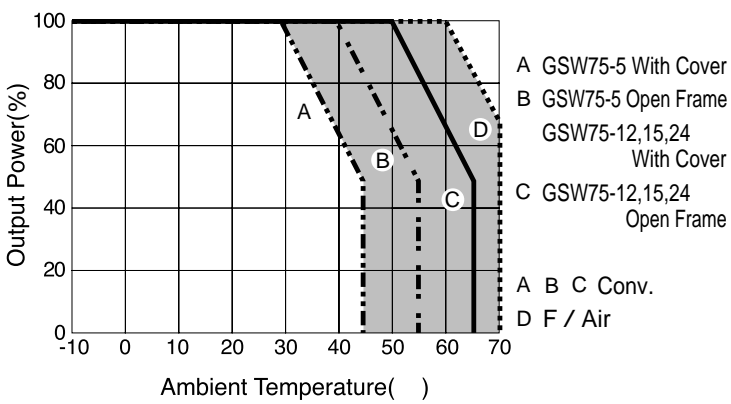
### Connectors Used

| 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)

