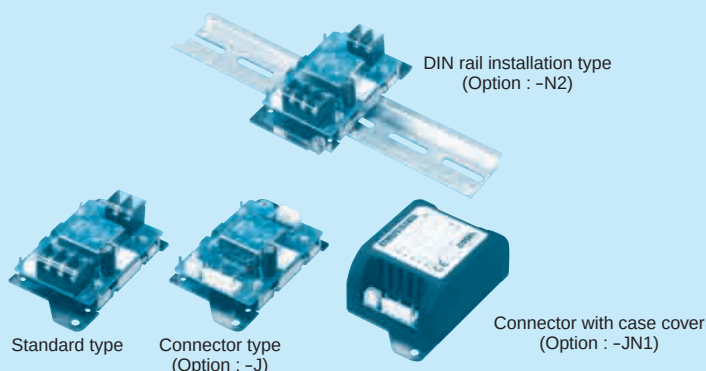


## STMGFS15

STMGF S 15 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
 G : Capacitor between Input and Output is removed.  
 R : with Remote ON/OFF (Positive logic control)  
 J : Input/Output Connector  
 JN1 : Connector with case cover  
 N2 : With DIN rail installation type  
 JN3 : Connector with cover(plastic) and DIN rail installation type  
 V : Output voltage setting potentiometer externally

\* Please remove short piece on CN4 to enable remote ON/OFF function.

\* When the option is set specifications may vary.

| MODEL                 | STMGFS15243R3 | STMGFS152405 | STMGFS152412 | STMGFS152415 |
|-----------------------|---------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 13.2          | 15           | 15.6         | 15           |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3          | 5            | 12           |
|                       | CURRENT[A]    | 4            | 3            | 1.3          |
|                       |               |              |              | 1            |

## SPECIFICATIONS

|                               | MODEL                           | STMGFS15243R3                                        | STMGFS152405 | STMGFS152412  | STMGFS152415  |
|-------------------------------|---------------------------------|------------------------------------------------------|--------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC9 - 36                                             |              |               |               |
|                               | CURRENT[A] *2                   | 0.63typ                                              | 0.71typ      | 0.73typ       | 0.70typ       |
|                               | EFFICIENCY[%] *2                | 87typ                                                | 88typ        | 89typ         | 89typ         |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5            | 12            | 15            |
|                               | CURRENT[A]                      | 4                                                    | 3            | 1.3           | 1             |
|                               | LINE REGULATION[mV]             | 13.2max                                              | 20max        | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 60max                                                | 60max        | 100max        | 120max        |
|                               | RIPPLE[mVp-p] *3                | 0 to +60°C 75max                                     | 75max        | 100max        | 100max        |
|                               |                                 | -20 to +60°C 100max                                  | 100max       | 120max        | 120max        |
|                               | RIPPLE NOISE[mVp-p] *3          | 0 to +60°C 120max                                    | 120max       | 150max        | 150max        |
|                               |                                 | -20 to +60°C 200max                                  | 200max       | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | 0 to +60°C 50max                                     | 50max        | 150max        | 180max        |
|                               |                                 | -20 to +60°C 80max                                   | 80max        | 240max        | 290max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max        | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 30max (Minimum input, Io=100%)                       |              |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | 2.97 - 3.63                                          | 4.50 - 5.50  | 10.80 - 13.20 | 13.50 - 16.50 |
|                               | OUTPUT VOLTAGE SETTING[V] *5    | 3.29 - 3.41                                          | 4.97 - 5.14  | 11.85 - 12.25 | 14.83 - 15.33 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |              |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L:ON, H:OFF)                |              |               |               |

| MODEL                 | STMGFS15483R3 | STMGFS154805 | STMGFS154812 | STMGFS154815 |
|-----------------------|---------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 13.2          | 15           | 15.6         | 15           |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3          | 5            | 12           |
|                       | CURRENT[A]    | 4            | 3            | 1.3          |
|                       |               |              |              | 1            |

## SPECIFICATIONS

|                               | MODEL                           | STMGFS15483R3                                        | STMGFS154805 | STMGFS154812  | STMGFS154815  |
|-------------------------------|---------------------------------|------------------------------------------------------|--------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                      | DC18 - 76                                            |              |               |               |
|                               | CURRENT[A] *2                   | 0.32typ                                              | 0.36typ      | 0.37typ       | 0.35typ       |
|                               | EFFICIENCY[%] *2                | 87typ                                                | 88typ        | 88typ         | 89typ         |
| OUTPUT                        | VOLTAGE[V]                      | 3.3                                                  | 5            | 12            | 15            |
|                               | CURRENT[A]                      | 4                                                    | 3            | 1.3           | 1             |
|                               | LINE REGULATION[mV]             | 13.2max                                              | 20max        | 48max         | 60max         |
|                               | LOAD REGULATION[mV]             | 60max                                                | 60max        | 100max        | 120max        |
|                               | RIPPLE[mVp-p] *3                | 0 to +60°C 75max                                     | 75max        | 100max        | 100max        |
|                               |                                 | -20 to +60°C 100max                                  | 100max       | 120max        | 120max        |
|                               | RIPPLE NOISE[mVp-p] *3          | 0 to +60°C 120max                                    | 120max       | 150max        | 150max        |
|                               |                                 | -20 to +60°C 200max                                  | 200max       | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]      | 0 to +60°C 50max                                     | 50max        | 150max        | 180max        |
|                               |                                 | -20 to +60°C 80max                                   | 80max        | 240max        | 290max        |
| PROTECTION CIRCUIT AND OTHERS | DRIFT[mV] *4                    | 20max                                                | 20max        | 48max         | 60max         |
|                               | START-UP TIME[ms]               | 30max (Minimum input, Io=100%)                       |              |               |               |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE | 2.97 - 3.63                                          | 4.50 - 5.50  | 10.80 - 13.20 | 13.50 - 16.50 |
|                               | OUTPUT VOLTAGE SETTING[V] *5    | 3.29 - 3.41                                          | 4.97 - 5.14  | 11.85 - 12.25 | 14.83 - 15.33 |
|                               | OVERCURRENT PROTECTION          | Works over 105% of rating and recovers automatically |              |               |               |
|                               | REMOTE ON/OFF                   | Provided (Negative logic L:ON, H:OFF)                |              |               |               |

## GENERAL SPECIFICATIONS

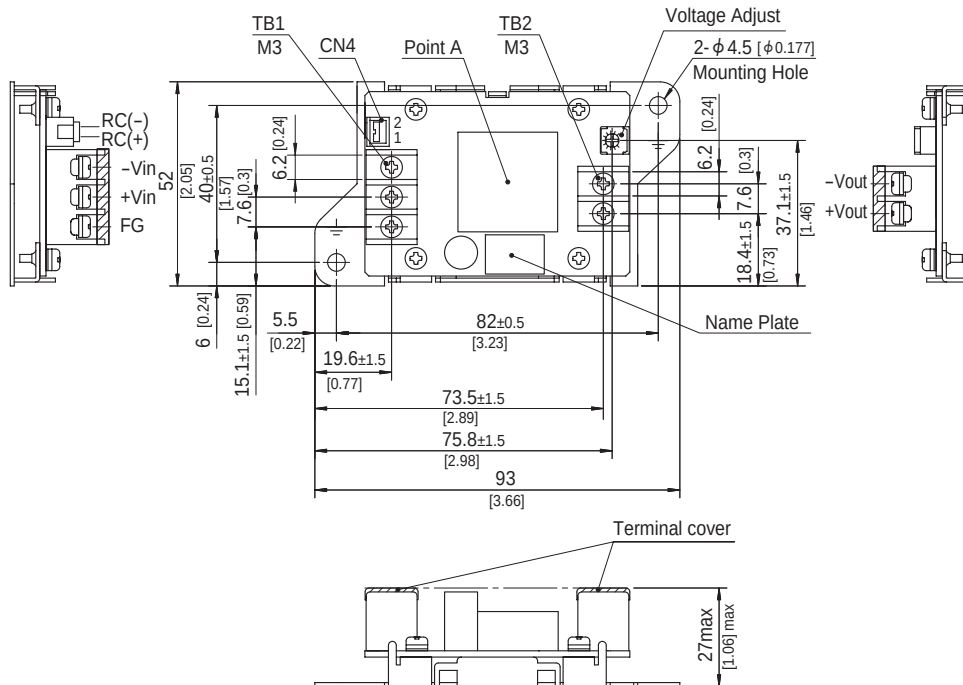
|             |                                      |                                                                                                          |
|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT · RC-OUTPUT                    | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |
|             | INPUT · RC-FG                        | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |
|             | OUTPUT-FG                            | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +70℃, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max                   |
|             | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75℃, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max                                       |
|             | VIBRATION                            | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis              |
|             | IMPACT                               | 196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis                                       |
| SAFETY      | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1 Complies                                                                      |
| OTHERS      | CASE SIZE/WEIGHT                     | 52×27×93mm [2.05×1.06×3.66 inches] (W×H×D) / 110g max (When the option is set, refer to the page STMG-6) |
|             | COOLING METHOD                       | Convection/Forced air                                                                                    |

- \*1 STMGFW15xx05/STMGFW15xx12/STMGFW15xx15 is available as single output, +10V/+24V/+30V
- \*2 Rated input 12V, 24V or 48V DC Io=100%
- \*3 Measured by 100MHz oscilloscope or Ripple-Noise meter (Equivalent to KIKUSUI-GIKEN : RM103).
- \*4 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25℃.
- \*5 Rated input voltage (DC24V, DC48V), rated output wattage, ambient temperature at 25℃.
- \* Parallel operation with other model is not possible.

## External view

### Standard type

\* External view of option G, R are the same as standard model.  
External view of other type options, please refer to the page STMG-6.



|               | I/O Connector |        | Mating Connector | Terminal                                       |
|---------------|---------------|--------|------------------|------------------------------------------------|
| Remote ON/OFF | CN4           | B2B-XH | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

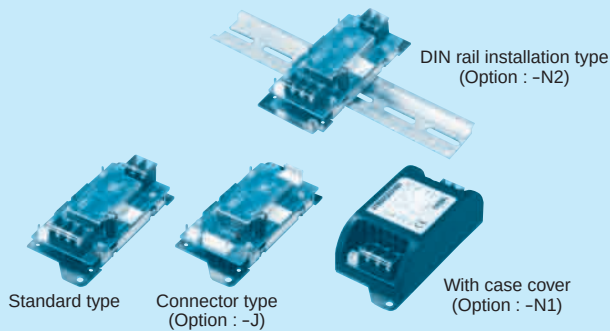
(Mfr.: J.S.T.)

- \* Tolerance ±1
- \* Dimensions in mm, [ ]=inches
- \* Weight : 110g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
- \* Terminal block screw tightening torque M3 : 0.8N · m (8.5kgf · cm) max
- \* CN4 has been installed short piece as factory setting (Except option R).  
When remote ON/OFF is used, please remove the installed short piece.

## STMGFS30

STMGF S 30 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
 G : Capacitor between Input and Output is removed.  
 R : with Remote ON/OFF (Positive logic control)  
 J : Input/Output Connector  
 N1 : With case cover  
 N2 : With DIN rail installation type  
 N3 : With cover(plastic) and DIN rail installation type  
 V : Output voltage setting potentiometer externally  
 \*When the option is set specifications may vary.

\*Please remove short piece on CN4 to enable remote ON/OFF function.

| MODEL                 | STMGFS30243R3 | STMGFS302405 | STMGFS302412 | STMGFS302415 |
|-----------------------|---------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 24.75         | 30           | 30           | 30           |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3          | 5            | 12           |
|                       | CURRENT[A]    | 7.5          | 6            | 2.5          |

## SPECIFICATIONS

|                               | MODEL                      | STMGFS30243R3                                        | STMGFS302405 | STMGFS302412 | STMGFS302415 |
|-------------------------------|----------------------------|------------------------------------------------------|--------------|--------------|--------------|
| INPUT                         | VOLTAGE[V]                 | DC9 - 36                                             |              |              |              |
|                               | CURRENT[A] *2              | 1.16typ                                              | 1.39typ      | 1.40typ      | 1.40typ      |
|                               | EFFICIENCY[%] *2           | 89typ                                                | 90typ        | 89typ        | 89typ        |
| OUTPUT                        | VOLTAGE[V]                 | 3.3                                                  | 5            | 12           | 15           |
|                               | CURRENT[A]                 | 7.5                                                  | 6            | 2.5          | 2            |
|                               | LINE REGULATION[mV]        | 13.2max                                              | 20max        | 48max        | 60max        |
|                               | LOAD REGULATION[mV]        | 60max                                                | 60max        | 100max       | 120max       |
|                               | RIPPLE[mVp-p] *3           | 0 to +60°C 75max                                     | 75max        | 100max       | 100max       |
|                               |                            | -20 to +60°C 100max                                  | 100max       | 120max       | 120max       |
|                               | RIPPLE NOISE[mVp-p] *3     | 0 to +60°C 120max                                    | 120max       | 150max       | 150max       |
|                               |                            | -20 to +60°C 200max                                  | 200max       | 200max       | 200max       |
|                               | TEMPERATURE REGULATION[mV] | 0 to +60°C 50max                                     | 50max        | 150max       | 180max       |
|                               |                            | -20 to +60°C 80max                                   | 80max        | 240max       | 290max       |
|                               | DRIFT[mV] *4               | 20max                                                | 20max        | 48max        | 60max        |
|                               | START-UP TIME[ms]          | 30max (Minimum input, I <sub>o</sub> =100%)          |              |              |              |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION     | Works over 105% of rating and recovers automatically |              |              |              |
|                               | OVERVOLTAGE PROTECTION[V]  | Works over 120 to 160% of rating                     |              |              |              |
|                               | REMOTE ON/OFF              | Provided (Negative logic L:ON, H:OFF)                |              |              |              |

| MODEL                 | STMGFS30483R3 | STMGFS304805 | STMGFS304812 | STMGFS304815 |
|-----------------------|---------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 24.75         | 30           | 30           | 30           |
| DC OUTPUT             | VOLTAGE[V] *1 | 3.3          | 5            | 12           |
|                       | CURRENT[A]    | 7.5          | 6            | 2.5          |

## SPECIFICATIONS

|                               | MODEL                      | STMGFS30483R3                                        | STMGFS304805 | STMGFS304812 | STMGFS304815 |
|-------------------------------|----------------------------|------------------------------------------------------|--------------|--------------|--------------|
| INPUT                         | VOLTAGE[V]                 | DC18 - 76                                            |              |              |              |
|                               | CURRENT[A] *2              | 0.58typ                                              | 0.70typ      | 0.70typ      | 0.70typ      |
|                               | EFFICIENCY[%] *2           | 89typ                                                | 90typ        | 89typ        | 89typ        |
| OUTPUT                        | VOLTAGE[V]                 | 3.3                                                  | 5            | 12           | 15           |
|                               | CURRENT[A]                 | 7.5                                                  | 6            | 2.5          | 2            |
|                               | LINE REGULATION[mV]        | 13.2max                                              | 20max        | 48max        | 60max        |
|                               | LOAD REGULATION[mV]        | 60max                                                | 60max        | 100max       | 120max       |
|                               | RIPPLE[mVp-p] *3           | 0 to +60°C 75max                                     | 75max        | 100max       | 100max       |
|                               |                            | -20 to +60°C 100max                                  | 100max       | 120max       | 120max       |
|                               | RIPPLE NOISE[mVp-p] *3     | 0 to +60°C 120max                                    | 120max       | 150max       | 150max       |
|                               |                            | -20 to +60°C 200max                                  | 200max       | 200max       | 200max       |
|                               | TEMPERATURE REGULATION[mV] | 0 to +60°C 50max                                     | 50max        | 150max       | 180max       |
|                               |                            | -20 to +60°C 80max                                   | 80max        | 240max       | 290max       |
|                               | DRIFT[mV] *4               | 20max                                                | 20max        | 48max        | 60max        |
|                               | START-UP TIME[ms]          | 30max (Minimum input, I <sub>o</sub> =100%)          |              |              |              |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION     | Works over 105% of rating and recovers automatically |              |              |              |
|                               | OVERVOLTAGE PROTECTION[V]  | Works over 120 to 160% of rating                     |              |              |              |
|                               | REMOTE ON/OFF              | Provided (Negative logic L:ON, H:OFF)                |              |              |              |

## GENERAL SPECIFICATIONS

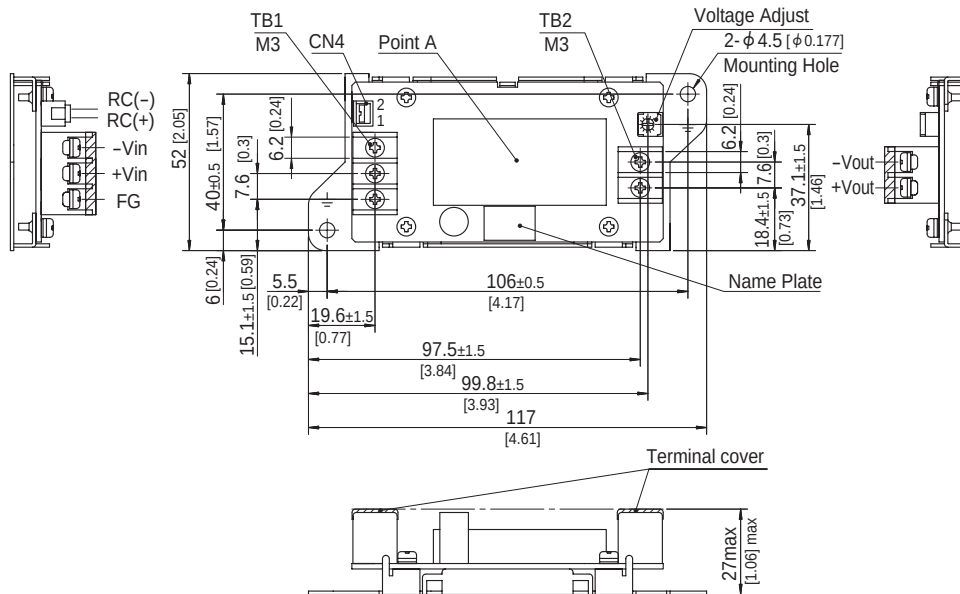
|             |                                      |                                                                                                           |
|-------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| ISOLATION   | INPUT · RC-OUTPUT                    | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                      |
|             | INPUT · RC-FG                        | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                      |
|             | OUTPUT-FG                            | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                      |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +70℃, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max                    |
|             | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75℃, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max                                        |
|             | VIBRATION                            | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis               |
|             | IMPACT                               | 196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis                                        |
| SAFETY      | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1 Complies                                                                       |
| OTHERS      | CASE SIZE/WEIGHT                     | 52×27×117mm [2.05×1.06×4.61 inches] (W×H×D) / 140g max (When the option is set, refer to the page STMG-7) |
|             | COOLING METHOD                       | Convection/Forced air                                                                                     |

- \*1 STMGFW30xx05/STMGFW30xx12/STMGFW30xx15 is available as single output, +10V/+24V/+30V
- \*2 Rated input 12V, 24V or 48V DC Io=100%
- \*3 Measured by 100MHz oscilloscope or Ripple-Noise meter (Equivalent to KIKUSUI-GIKEN : RM103).
- \*4 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25℃.
- \*5 Rated input voltage (DC24V, DC48V), rated output wattage, ambient temperature at 25℃.
- \* Parallel operation with other model is not possible.

## External view

### Standard type

\* External view of option G, R are the same as standard model.  
External view of other type options, please refer to the page STMG-7.



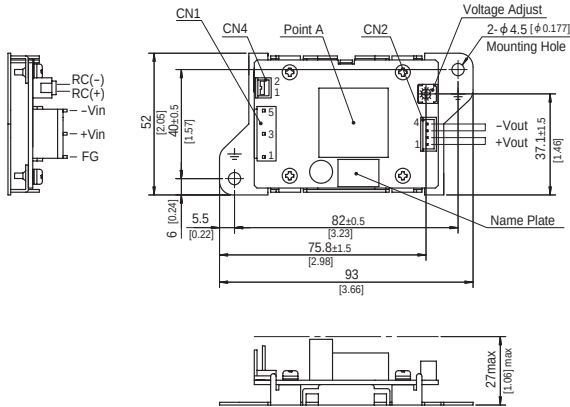
|               | I/O Connector |        | Mating Connector | Terminal                                       |
|---------------|---------------|--------|------------------|------------------------------------------------|
| Remote ON/OFF | CN4           | B2B-XH | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

(Mfr.: J.S.T.)

- \* Tolerance ±1
- \* Dimensions in mm, [ ]=inches
- \* Weight : 140g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
- \* Terminal block screw tightening torque M3 : 0.8N · m (8.5kgf · cm) max
- \* CN4 has been installed jumper as factory setting (Except option R).  
When remote ON/OFF is used , please remove the installed jumper.

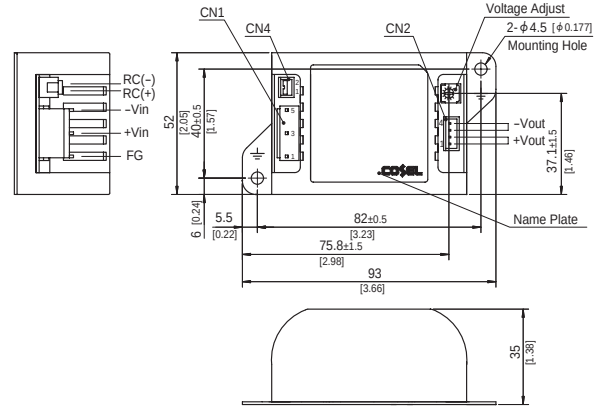
## External view (Option type)

### Connector type (-J)

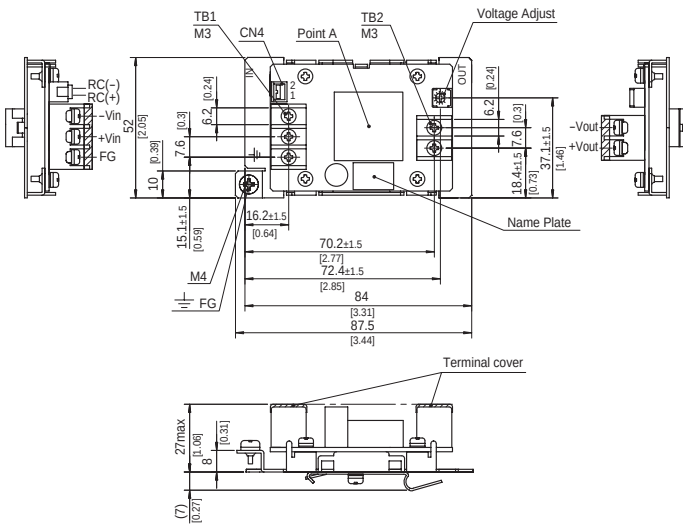


### Case cover and connector type (-JN1)

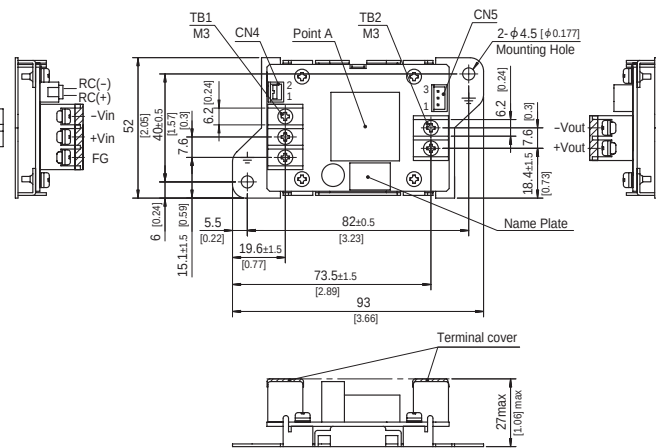
\* The specifications of terminal block and Case cover type can not be set.



### DIN rail installation type (-N2)



### External voltage variable volume type (-V)



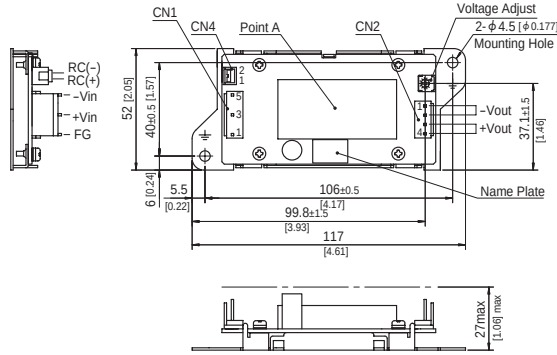
|                                       | I/O Connector |         | Mating Connector | Terminal                                       |
|---------------------------------------|---------------|---------|------------------|------------------------------------------------|
| Connector Type Input                  | CN1           | B3P5-VH | VHR-5N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Connector Type Output                 | CN2           | B4P-XH  | XHP-4            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |
| Remote ON/OFF                         | CN4           | B2B-XH  | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |
| External voltage variable volume type | CN5           | B3B-XH  | XHP-3            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

(Mfr.:J.S.T.)

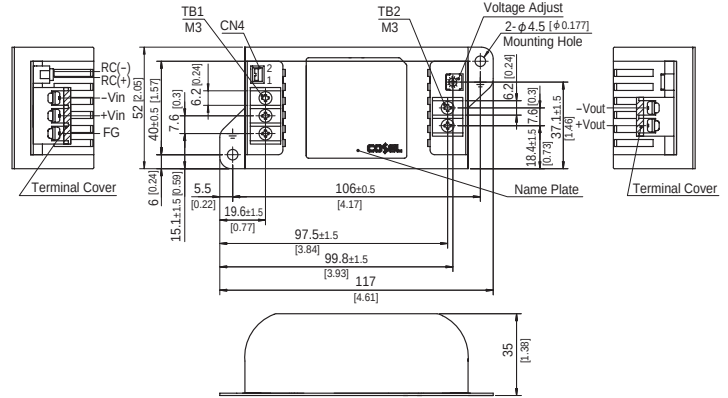
- \* Tolerance  $\pm 1$
- \* Dimensions in mm, [ ]=inches
- \* Weight : Standard & Connector type 110g max  
Case cover & DIN rail installation type 120g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating)  $t=1.0$  [0.04]
- \* Case : PBT
- \* Terminal block screw tightening torque M3 :  $0.8N \cdot m$  (8.5kgf  $\cdot$  cm) max
- \* CN4 has been installed jumper as factory setting (Except option R).  
When remote ON/OFF is used , please remove the installed jumper.
- \* Connector Type : Keep drawing current per pin below 2.5A for CN2.

## External view (Option type)

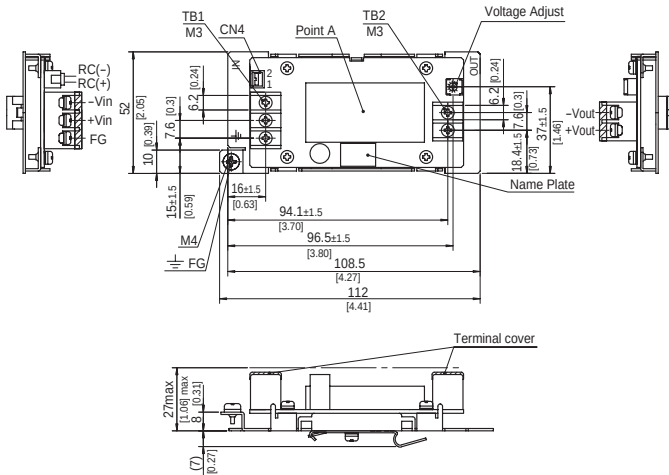
### Connector type (-J)



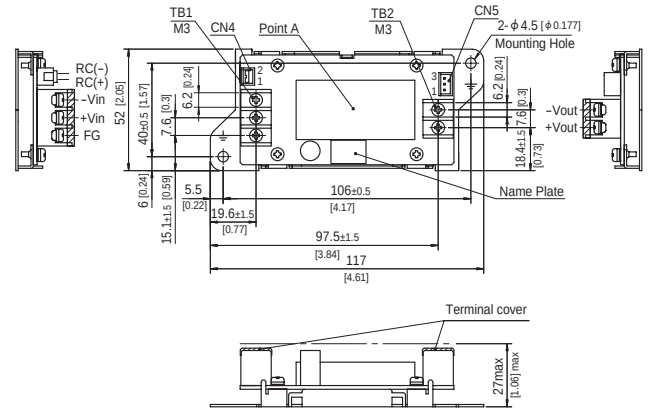
### Case cover type (-N1)



### DIN rail installation type (-N2)



### External voltage variable volume type (-V)



|                                       | I/O Connector |         | Mating Connector | Terminal                                       |
|---------------------------------------|---------------|---------|------------------|------------------------------------------------|
| Connector Type Input                  | CN1           | B3P5-VH | VHR-5N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Connector Type Output                 | CN2           | B4P-VH  | VHR-4N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Remote ON/OFF                         | CN4           | B2B-XH  | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |
| External voltage variable volume type | CN5           | B3B-XH  | XHP-3            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

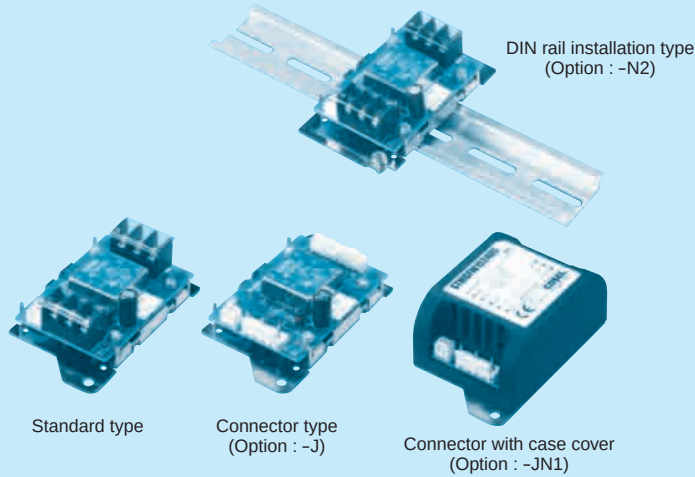
(Mfr.:J.S.T.)

- \* Tolerance  $\pm 1$
- \* Dimensions in mm, [ ]=inches
- \* Weight : Standard & Connector type 140g max  
Case cover & DIN rail installation type 160g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating)  $t=1.0$  [0.04]
- \* Case : PBT
- \* Terminal block screw tightening torque M3 :  $0.8N \cdot m$  (8.5kgf  $\cdot$  cm) max
- \* CN4 has been installed jumper as factory setting (Except option R).  
When remote ON/OFF is used, please remove the installed jumper.
- \* Connector Type : Keep drawing current per pin below 5A for CN2.

## STMGFW15

STMGF W 15 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Dual output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
   G : Capacitor between  
     Input and Output is removed.  
   R : with Remote ON/OFF  
     (Positive logic control)  
   J : Input/Output Connector  
   JN1 : Connector with case cover  
   N2 : With DIN rail installation type  
   JN3 : Connector with cover(plastic)  
     and DIN rail installation type

\*When the option is set  
specifications may vary.

\*Please remove short piece on CN4 to enable remote ON/OFF function.

| MODEL                 | STMGFW152405  | STMGFW152412 | STMGFW152415 | STMGFW154805 | STMGFW154812 | STMGFW154815 |
|-----------------------|---------------|--------------|--------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 15            | 15.6         | 15           | 15           | 15.6         | 15           |
| DC OUTPUT             | VOLTAGE[V] *1 | ±5 or +10    | ±12 or +24   | ±15 or +30   | ±5 or +10    | ±12 or +24   |
|                       | CURRENT[A]    | 1.5          | 0.65         | 0.5          | 1.5          | 0.65         |

## SPECIFICATIONS

|                                     | MODEL                                | STMGFW152405                                                                                             | STMGFW152412  | STMGFW152415  | STMGFW154805 | STMGFW154812  | STMGFW154815  |
|-------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------|---------------|---------------|--------------|---------------|---------------|
| INPUT                               | VOLTAGE[V]                           | DC9 - 36                                                                                                 |               |               | DC18 - 76    |               |               |
|                                     | CURRENT[A] *2                        | 0.74typ                                                                                                  | 0.74typ       | 0.70typ       | 0.37typ      | 0.37typ       | 0.36typ       |
|                                     | EFFICIENCY[%] *2                     | 84typ                                                                                                    | 88typ         | 89typ         | 84typ        | 87typ         | 88typ         |
| OUTPUT                              | VOLTAGE[V]                           | ±5(+10)                                                                                                  | ±12(+24)      | ±15(+30)      | ±5(+10)      | ±12(+24)      | ±15(+30)      |
|                                     | CURRENT[A]                           | 1.5                                                                                                      | 0.65          | 0.5           | 1.5          | 0.65          | 0.5           |
|                                     | LINE REGULATION[mV]                  | 40max                                                                                                    | 60max         | 75max         | 40max        | 60max         | 75max         |
|                                     | LOAD REGULATION[mV]                  | *3 500max *5                                                                                             | 600max        | 750max        | 500max *5    | 600max        | 750max        |
|                                     |                                      | *4 250max                                                                                                | 480max        | 600max        | 250max       | 480max        | 600max        |
|                                     | RIPPLE[mVp-p] *6                     | 0 to +60℃ 100max                                                                                         | 100max        | 100max        | 100max       | 100max        | 100max        |
|                                     |                                      | -20 to +60℃ 120max                                                                                       | 120max        | 120max        | 120max       | 120max        | 120max        |
|                                     | RIPPLE NOISE[mVp-p] *6               | 0 to +60℃ 150max                                                                                         | 150max        | 150max        | 150max       | 150max        | 150max        |
|                                     |                                      | -20 to +60℃ 200max                                                                                       | 200max        | 200max        | 200max       | 200max        | 200max        |
|                                     | TEMPERATURE REGULATION[mV]           | 0 to +60℃ 50max                                                                                          | 150max        | 180max        | 50max        | 150max        | 180max        |
|                                     |                                      | -20 to +60℃ 80max                                                                                        | 240max        | 290max        | 80max        | 240max        | 290max        |
| PROTECTION<br>CIRCUIT AND<br>OTHERS | DRIFT[mV] *7                         | 50max                                                                                                    | 50max         | 60max         | 50max        | 50max         | 60max         |
|                                     | START-UP TIME[ms]                    | 30max (Minimum input, Io=100%)                                                                           |               |               |              |               |               |
|                                     | OUTPUT VOLTAGE SETTING[V] *8         | 4.93 - 5.24                                                                                              | 11.76 - 12.50 | 14.60 - 15.51 | 4.93 - 5.24  | 11.76 - 12.50 | 14.60 - 15.51 |
|                                     | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                     |               |               |              |               |               |
|                                     | REMOTE ON/OFF                        | Provided (Negative logic L:ON, H:OFF)                                                                    |               |               |              |               |               |
| ISOLATION                           | INPUT · RC-OUTPUT                    | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |               |               |              |               |               |
|                                     | INPUT · RC-FG                        | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |               |               |              |               |               |
|                                     | OUTPUT-FG                            | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                     |               |               |              |               |               |
| ENVIRONMENT                         | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +70℃, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max                   |               |               |              |               |               |
|                                     | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75℃, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max                                       |               |               |              |               |               |
|                                     | VIBRATION                            | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis              |               |               |              |               |               |
|                                     | IMPACT                               | 196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis                                       |               |               |              |               |               |
| SAFETY                              | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1 Complies                                                                      |               |               |              |               |               |
| OTHERS                              | CASE SIZE/WEIGHT                     | 52×27×93mm [2.05×1.06×3.66 inches] (W×H×D) / 110g max (When the option is set, refer to the page STMG-9) |               |               |              |               |               |
|                                     | COOLING METHOD                       | Convection/Forced air                                                                                    |               |               |              |               |               |

\*1 Single output +10V, +24V, +30V with no use of COM.

\*2 Rated input 12V, 24V or 48V DC Io=100%

\*3 Symmetrical loading from 5% to 100%.

\*4 Symmetrical loading from 20% to 100%.

\*5 Refer to the instruction manual 6.

\*6 Measured by 100MHz oscilloscope or Ripple-Noise meter (Equivalent to KIKUSUI-GIKEN : RM103).

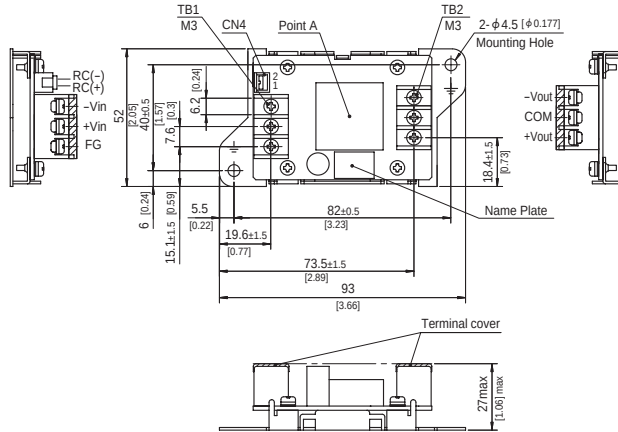
\*7 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25℃.

\*8 Rated input voltage (DC24V, DC48V), rated output wattage, ambient temperature at 25℃.  
 \* Parallel operation with other model is not possible.

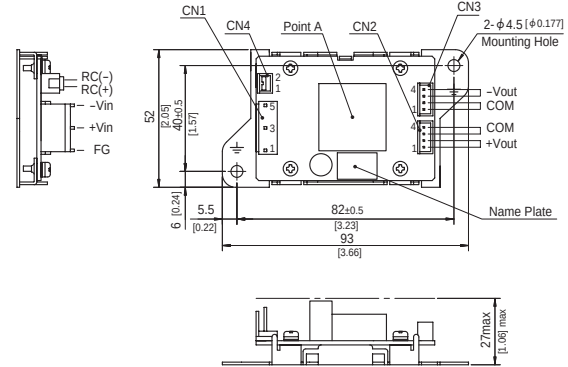
## External view

### Standard type

\* External view of option G, R are the same as standard model.

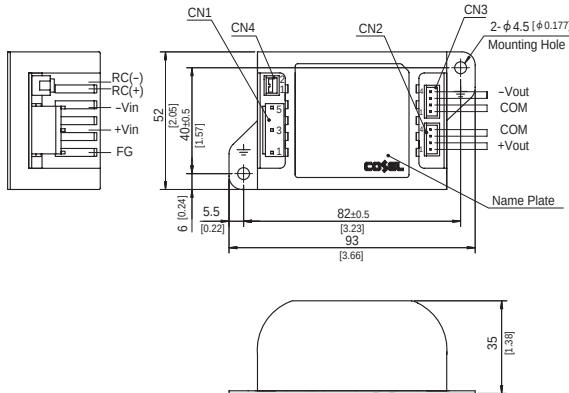


### Connector type (-J)

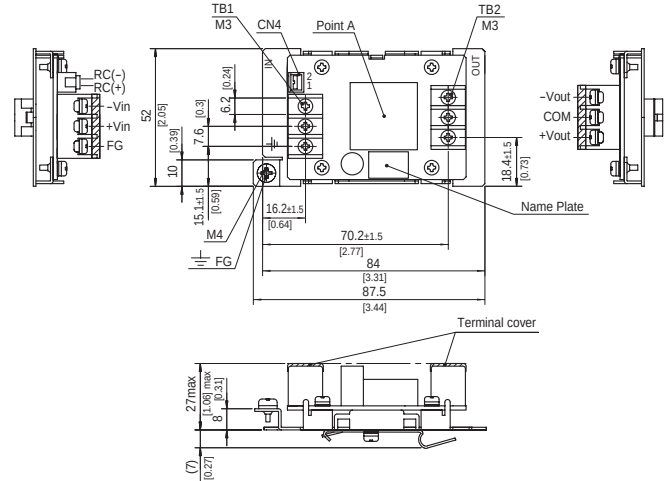


### Case cover and connector type (-JN1)

\* The specifications of terminal block and Case cover type can not be set.



### DIN rail installation type (-N2)



|                       | I/O Connector |         | Mating Connector | Terminal                                       |
|-----------------------|---------------|---------|------------------|------------------------------------------------|
| Connector Type Input  | CN1           | B3P5-VH | VHR-5N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Connector Type Output | CN2, CN3      | B4B-XH  | XHP-4            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |
| Remote ON/OFF         | CN4           | B2B-XH  | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

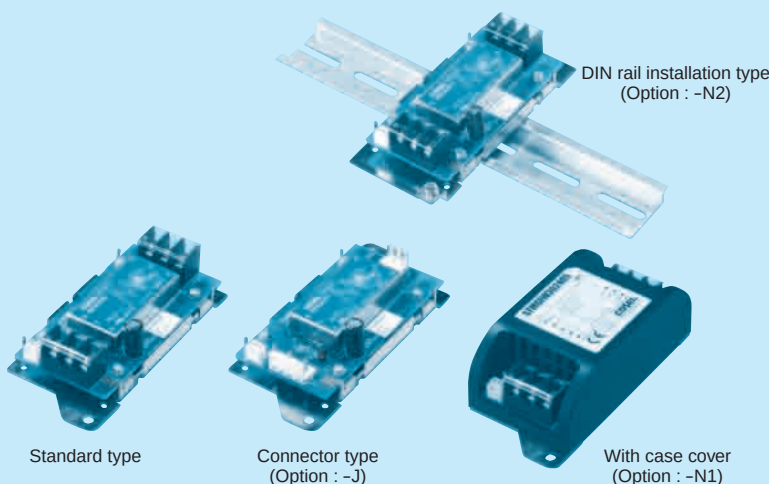
(Mfr.:J.S.T.)

- \* Tolerance  $\pm 1$
- \* Dimensions in mm, [ ]=inches
- \* Weight : Standard & Connector type 110g max  
Case cover & DIN rail installation type 120g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating)  $t=1.0$  [0.04]
- \* Case : PBT
- \* Terminal block screw tightning torque M3 :  $0.8N \cdot m$  (8.5kgf  $\cdot$  cm) max
- \* CN4 has been installed jumper as factory setting (Except option R).  
When remoto ON/OFF is used , please remove the installed jumper.
- \* Connector Type : Keep drawing current per pin below 2.5A for CN2,CN3.

## STMGFW30

STMGF W 30 24 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name  
 ② Dual output  
 ③ Output wattage  
 ④ Input voltage  
 ⑤ Output voltage  
 ⑥ Optional  
 G : Capacitor between Input and Output is removed.  
 R : with Remote ON/OFF (Positive logic control)  
 J : Input/Output Connector  
 N1 : With case cover  
 N2 : With DIN rail installation type  
 N3 : With cover(plastic) and DIN rail installation type

\*When the option is set specifications may vary.

\*Please remove short piece on CN4 to enable remote ON/OFF function.

| MODEL                 | STMGFW302405  | STMGFW302412 | STMGFW302415 | STMGFW304805 | STMGFW304812 | STMGFW304815 |
|-----------------------|---------------|--------------|--------------|--------------|--------------|--------------|
| MAX OUTPUT WATTAGE[W] | 20            | 30           | 30           | 20           | 30           | 30           |
| DC OUTPUT             | VOLTAGE[V] *1 | ±5 or +10    | ±12 or +24   | ±15 or +30   | ±5 or +10    | ±12 or +24   |
|                       | CURRENT[A]    | 2            | 1.25         | 1            | 2            | 1.25         |

## SPECIFICATIONS

|                               | MODEL                                | STMGFW302405                                                                                                           | STMGFW302412  | STMGFW302415  | STMGFW304805 | STMGFW304812  | STMGFW304815  |
|-------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------|---------------|---------------|
| INPUT                         | VOLTAGE[V]                           | DC9 - 36                                                                                                               |               |               | DC18 - 76    |               |               |
|                               | CURRENT[A] *2                        | 0.98typ                                                                                                                | 1.42typ       | 1.44typ       | 0.49typ      | 0.71typ       | 0.72typ       |
|                               | EFFICIENCY[%] *2                     | 85typ                                                                                                                  | 88typ         | 87typ         | 85typ        | 88typ         | 87typ         |
| OUTPUT                        | VOLTAGE[V]                           | ±5(+10)                                                                                                                | ±12(+24)      | ±15(+30)      | ±5(+10)      | ±12(+24)      | ±15(+30)      |
|                               | CURRENT[A]                           | 2                                                                                                                      | 1.25          | 1             | 2            | 1.25          | 1             |
|                               | LINE REGULATION[mV]                  | 40max                                                                                                                  | 60max         | 75max         | 40max        | 60max         | 75max         |
|                               | LOAD REGULATION[mV]                  | *3 500max *5                                                                                                           | 600max        | 750max        | 500max *5    | 600max        | 750max        |
|                               |                                      | *4 250max                                                                                                              | 480max        | 600max        | 250max       | 480max        | 600max        |
|                               | RIPPLE[mVp-p] *6                     | 0 to +60℃ 100max                                                                                                       | 100max        | 100max        | 100max       | 100max        | 100max        |
|                               |                                      | -20 to +60℃ 120max                                                                                                     | 120max        | 120max        | 120max       | 120max        | 120max        |
|                               | RIPPLE NOISE[mVp-p] *6               | 0 to +60℃ 150max                                                                                                       | 150max        | 150max        | 150max       | 150max        | 150max        |
|                               |                                      | -20 to +60℃ 200max                                                                                                     | 200max        | 200max        | 200max       | 200max        | 200max        |
|                               | TEMPERATURE REGULATION[mV]           | 0 to +60℃ 50max                                                                                                        | 150max        | 180max        | 50max        | 150max        | 180max        |
|                               |                                      | -20 to +60℃ 80max                                                                                                      | 240max        | 290max        | 80max        | 240max        | 290max        |
|                               | DRIFT[mV] *7                         | 50max                                                                                                                  | 50max         | 60max         | 50max        | 50max         | 60max         |
| PROTECTION CIRCUIT AND OTHERS | START-UP TIME[ms]                    | 30max (Minimum input, Io=100%)                                                                                         |               |               |              |               |               |
|                               | OUTPUT VOLTAGE SETTING[V] *8         | 4.93 - 5.24                                                                                                            | 11.76 - 12.50 | 14.60 - 15.51 | 4.93 - 5.24  | 11.76 - 12.50 | 14.60 - 15.51 |
|                               | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                                   |               |               |              |               |               |
| ISOLATION                     | OVERVOLTAGE PROTECTION[V]            | Works over 120 to 160% of rating (Total of +V and -V)                                                                  |               |               |              |               |               |
|                               | REMOTE ON/OFF                        | Provided (Negative logic L:ON, H:OFF)                                                                                  |               |               |              |               |               |
|                               | INPUT · RC-OUTPUT                    | DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                                   |               |               |              |               |               |
| ENVIRONMENT                   | INPUT · RC-FG                        | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                                   |               |               |              |               |               |
|                               | OUTPUT-FG                            | DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)                                                   |               |               |              |               |               |
|                               | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +70℃, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max                                 |               |               |              |               |               |
| SAFETY                        | STORAGE TEMP., HUMID. AND ALTITUDE   | -20 to +75℃, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max                                                     |               |               |              |               |               |
|                               | VIBRATION                            | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                            |               |               |              |               |               |
|                               | IMPACT                               | 196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis                                                     |               |               |              |               |               |
| OTHERS                        | AGENCY APPROVALS                     | UL60950-1, C-UL, EN60950-1 Complies                                                                                    |               |               |              |               |               |
|                               | CASE SIZE/WEIGHT                     | 52 X 27 X 117mm [2.05 X 1.06 X 4.61 inches] (W X H X D) / 140g max (When the option is set, refer to the page STMG-11) |               |               |              |               |               |
|                               | COOLING METHOD                       | Convection/Forced air                                                                                                  |               |               |              |               |               |

\*1 Single output +10V, +24V, +30V with no use of COM.

\*2 Rated input 12V, 24V or 48V DC Io=100%

\*3 Symmetrical loading from 5% to 100%.

\*4 Symmetrical loading from 20% to 100%.

\*5 Refer to the instruction manual 6.

\*6 Measured by 100MHz oscilloscope or Ripple-Noise meter (Equivalent to KIKUSUI-GIKEN : RM103).

\*7 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25℃.

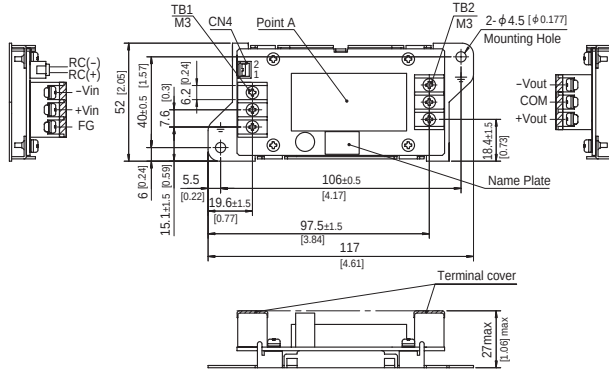
\*8 Rated input voltage (DC24V, DC48V), rated output wattage, ambient temperature at 25℃.

\* Parallel operation with other model is not possible.

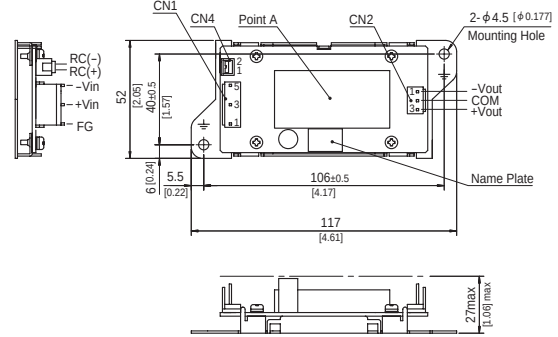
## External view

### Standard type

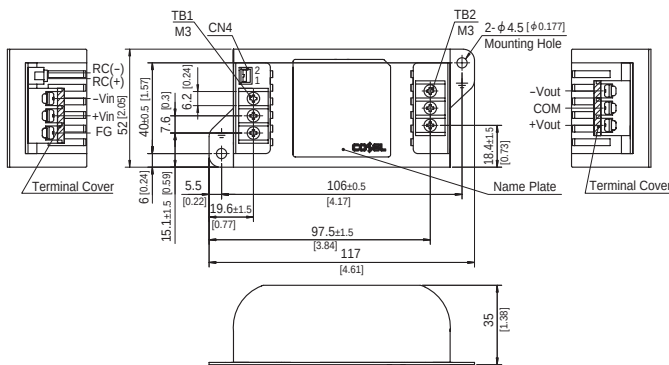
\* External view of option G, R are the same as standard model.



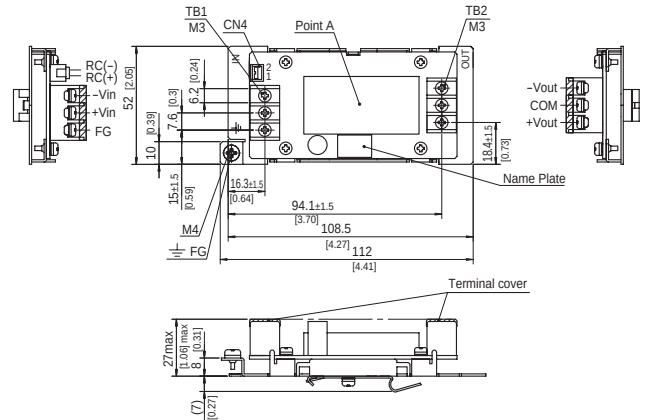
### Connector type (-J)



### Case cover type (-N1)



### DIN rail installation type (-N2)



|                       | I/O Connector |         | Mating Connector | Terminal                                       |
|-----------------------|---------------|---------|------------------|------------------------------------------------|
| Connector Type Input  | CN1           | B3P5-VH | VHR-5N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Connector Type Output | CN2           | B3P-VH  | VHR-3N           | Chain : SVH-21T-P1.1<br>Loose : BVH-21T-P1.1   |
| Remote ON/OFF         | CN4           | B2B-XH  | XHP-2            | Chain : SXH-001T-P0.6<br>Loose : BXH-001T-P0.6 |

(Mfr.:J.S.T.)

- \* Tolerance  $\pm 1$
- \* Dimensions in mm, [ ]=inches
- \* Weight : Standard & Connector type 140g max  
Case cover & DIN rail installation type 160g max
- \* PCB material / thickness : FR-4 / 1.6mm
- \* Mounting plate : Iron (surface finishing : nickel plating)  $t=1.0$  [0.04]
- \* Case : PBT
- \* Terminal block screw tightening torque M3 :  $0.8N \cdot m$  (8.5kgf  $\cdot$  cm) max
- \* CN4 has been installed jumper as factory setting (Except option R).  
When remote ON/OFF is used, please remove the installed jumper.
- \* Connector Type : Keep drawing current per pin below 5A for CN2.

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[STMGFS304815-N2](#) [STMGFS304805-N3](#) [STMGFS304812](#) [STMGFW302415](#) [STMGFS15483R3-V](#) [STMGFS304815-](#)  
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.