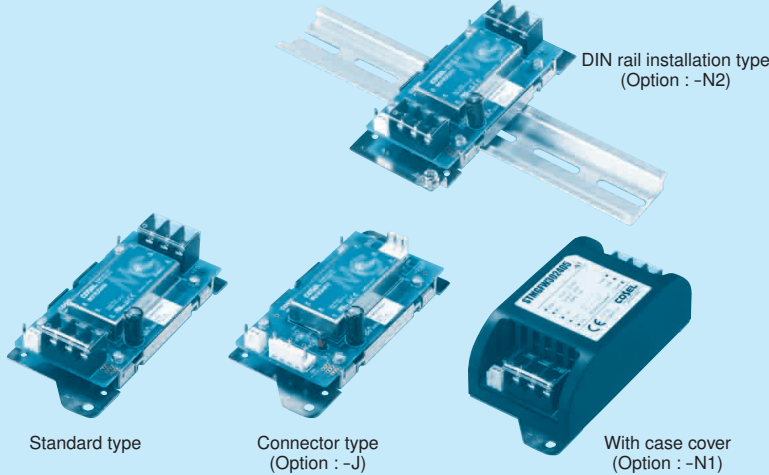


# STMGFW30

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        |
| PROTECTION CIRCUIT AND 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                                                       |               |               |              |               |               |
| 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                     | 52×27×117mm [2.05×1.06×4.61 inches] (W×H×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℃.

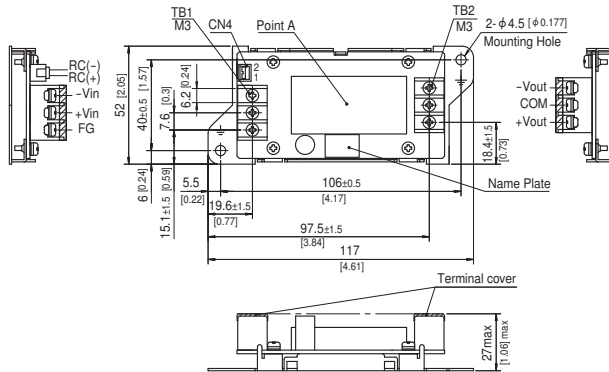
\*8 Rated input voltage (DC24V, DC48V), rated output wattage, ambient temperature at 25℃.

\* Parallel operation with other model is not possible.

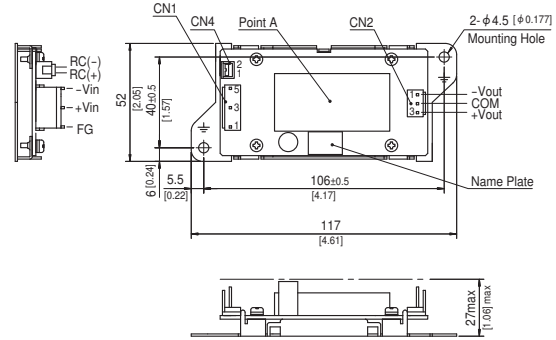
## External view

### Standard type

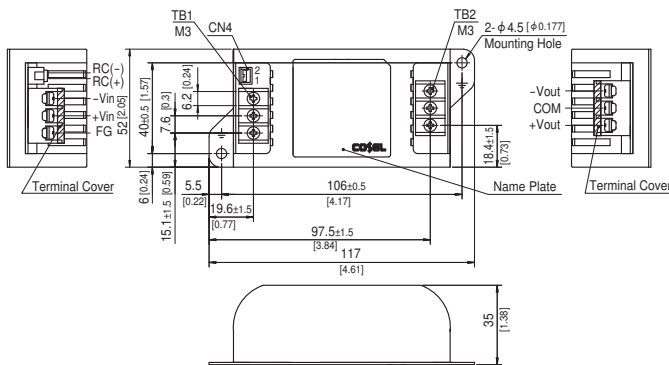
\* External view of option G, R are the same as standard model.



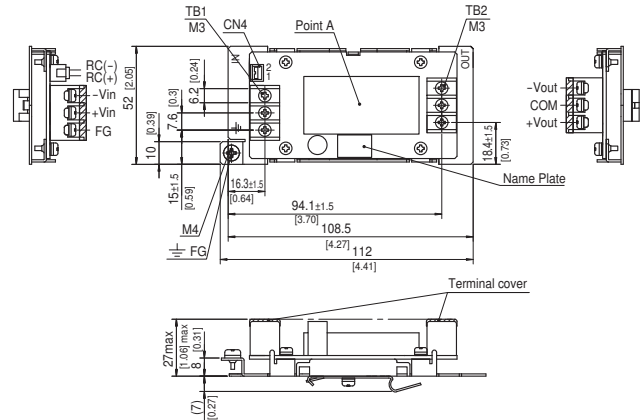
### Connector type (-J)



### 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.