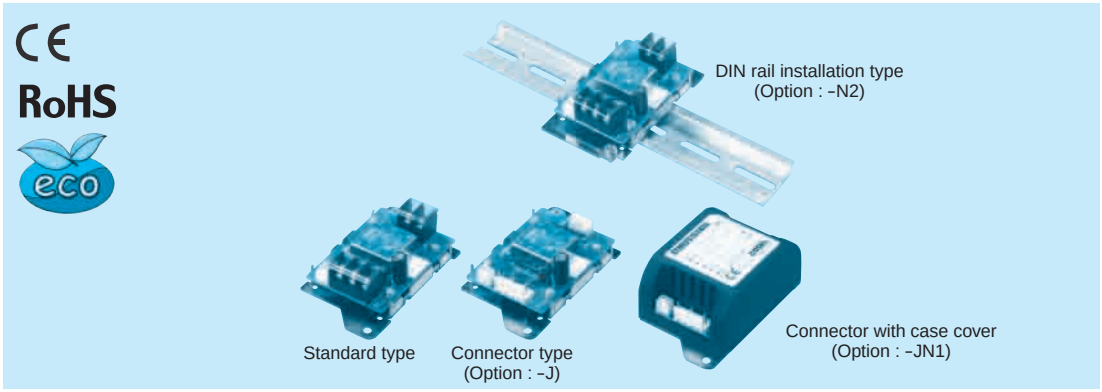
COSEL DC-DC Converters Value-added type

STMGFS15

Ordering information

STMGF S 15 24 05 -□
① ② ③ ④ ⑤ ⑥



①Series name
②Single output
③Output wattage
④Input voltage
⑤Output voltage
⑥Optional
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

*When the option is set specifications may vary.

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

MODEL		STMGFS15243R3	STMGFS152405	STMGFS152412	STMGFS152415
MAX OUTPUT WATTAGE[W]		13.2	15	15.6	15
DC OUTPUT	VOLTAGE[V] *1	3.3	5	12	15
	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℃	75max	75max	100max	100max
		-20 to +60℃	100max	100max	120max	120max
	RIPPLE NOISE[mVp-p] *3	0 to +60℃	120max	120max	150max	150max
		-20 to +60℃	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	0 to +60℃	50max	50max	150max	180max
		-20 to +60℃	80max	80max	240max	290max
	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
PROTECTION CIRCUIT AND OTHERS	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	15
	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℃	75max	75max	100max	100max
		-20 to +60℃	100max	100max	120max	120max
	RIPPLE NOISE[mVp-p] *3	0 to +60℃	120max	120max	150max	150max
		-20 to +60℃	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	0 to +60℃	50max	50max	150max	180max
		-20 to +60℃	80max	80max	240max	290max
	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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically			
	REMOTE ON/OFF		Provided (Negative logic L:ON, H:OFF)			

GENERAL SPECIFICATIONS

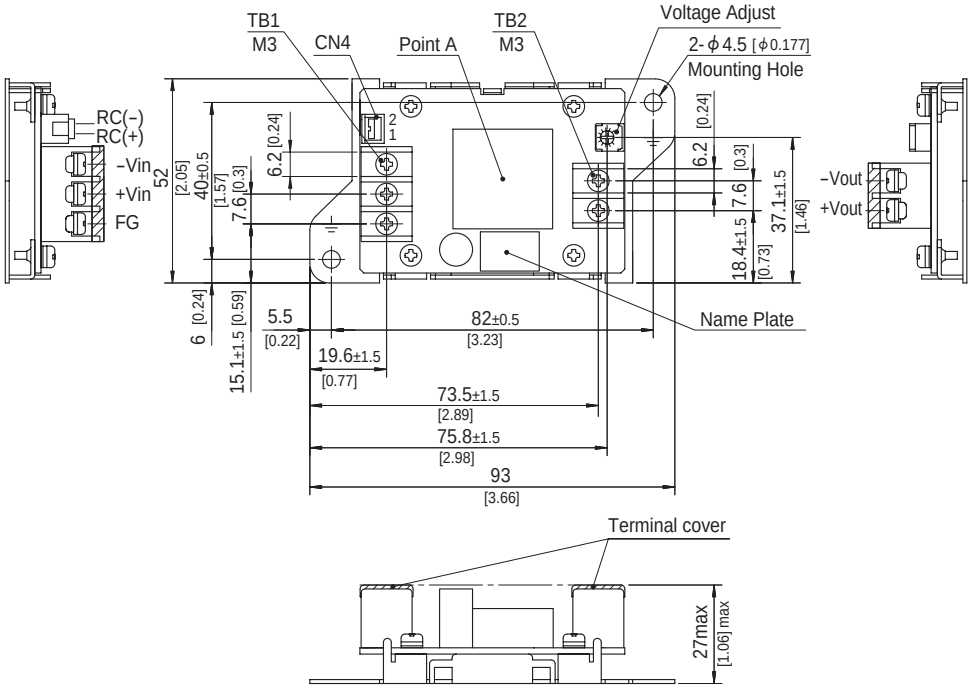
ISOLATION	INPUT・RC-OUTPUT	DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
	INPUT・RC-FG	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
	OUTPUT-FG	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-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/s²(2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	196.1m/s² (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 oscilloscpe 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℃.
✻ Parailel 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
				Loose : BXH-001T-P0.6

(Mfr.:J.S.T.)

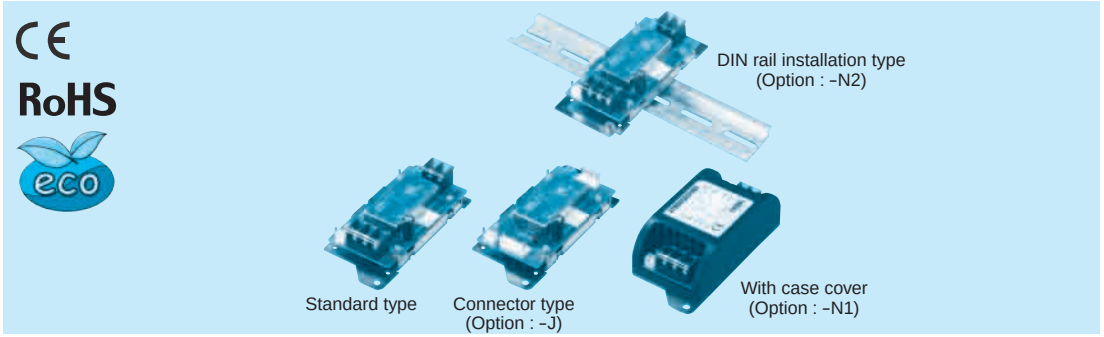
✻ Tolerance ±1
✻ Dimensions in mm, [ ]=inches
✻ Weight : 110g max
✻ PCB material / thickness : FR-4 / 1.6mm
✻ Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
✻ Terminal block screw tightning torque M3 : 0.8N・m (8.5kgf・cm) max
✻ CN4 has been installed short piece as factory setting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

COSEL DC-DC Converters Value-added type

STMGFS30

Ordering information

STMGF S 30 24 05 -□
① ② ③ ④ ⑤ ⑧



①Series name
②Single output
③Output wattage
④Input voltage
⑤Output voltage
⑧Optional
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	15
	CURRENT[A]]	7.5	6	2.5	2

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℃	75max	75max	100max	100max
		-20 to +60℃	100max	100max	120max	120max
	RIPPLE NOISE[mVp-p] ✻3	0 to +60℃	120max	120max	150max	150max
		-20 to +60℃	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	0 to +60℃	50max	50max	150max	180max
		-20 to +60℃	80max	80max	240max	290max
	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
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	15
	CURRENT[A]]	7.5	6	2.5	2

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℃	75max	75max	100max	100max
		-20 to +60℃	100max	100max	120max	120max
	RIPPLE NOISE[mVp-p] ✻3	0 to +60℃	120max	120max	150max	150max
		-20 to +60℃	200max	200max	200max	200max
	TEMPERATURE REGULATION[mV]	0 to +60℃	50max	50max	150max	180max
		-20 to +60℃	80max	80max	240max	290max
	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
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

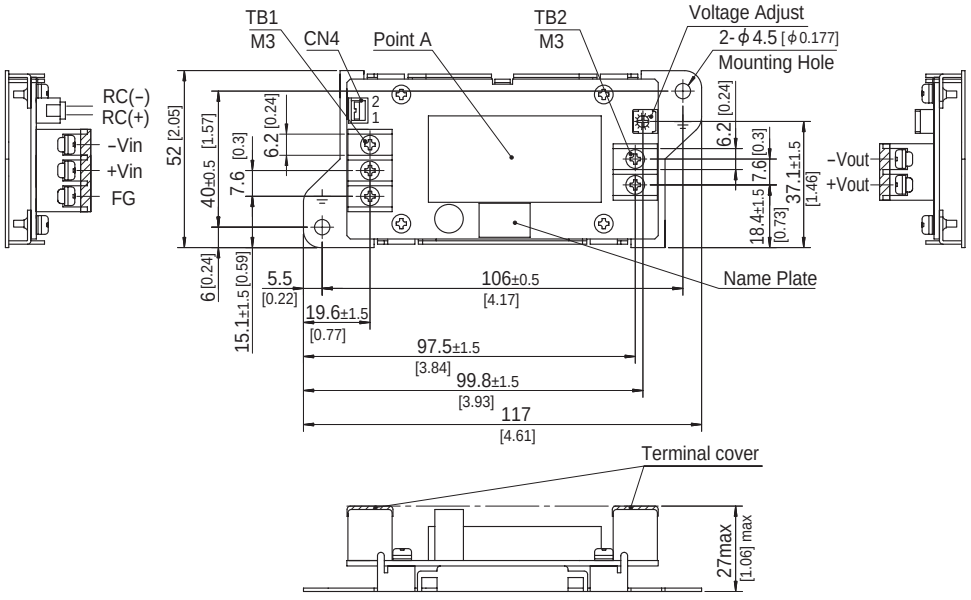
ISOLATION	INPUT・RC-OUTPUT	DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
	INPUT・RC-FG	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
	OUTPUT-FG	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15℃)
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-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/s²(2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT	196.1m/s² (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 oscilloscpe 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℃.
✻ Parailel 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.



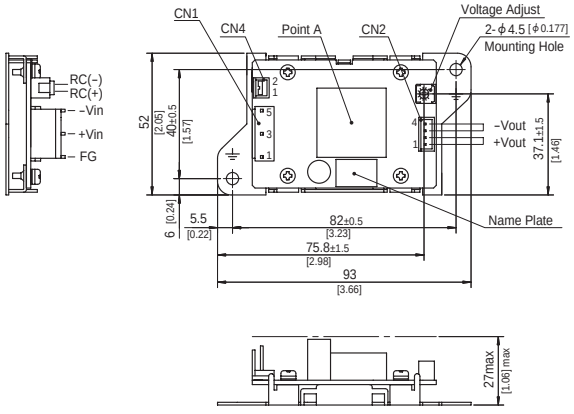
	I/O Connector		Mating Connector	Terminal
Remote ON/OFF	CN4	B2B-XH	XHP-2	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6

(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 tightning torque M3 : 0.8N・m (8.5kgf・cm) max
✻ CN4 has been installed jumper as factory setting (Except option R).
When remoto ON/OFF is used , please remove the installed jumper.

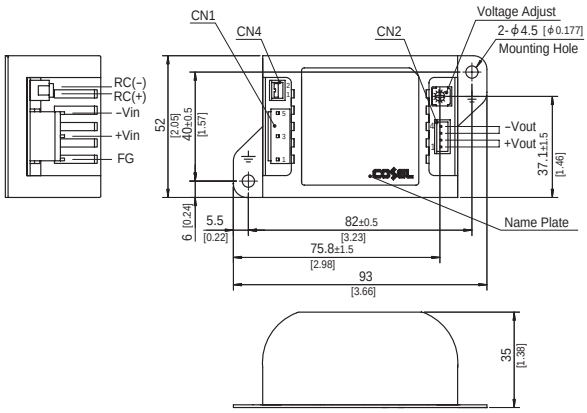
External view (Option type)

Connector type (-J)



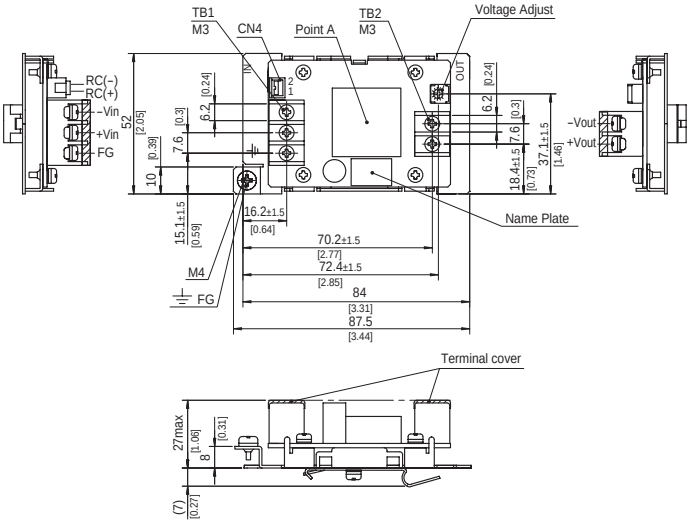
Case cover and connector type (-JN1)

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

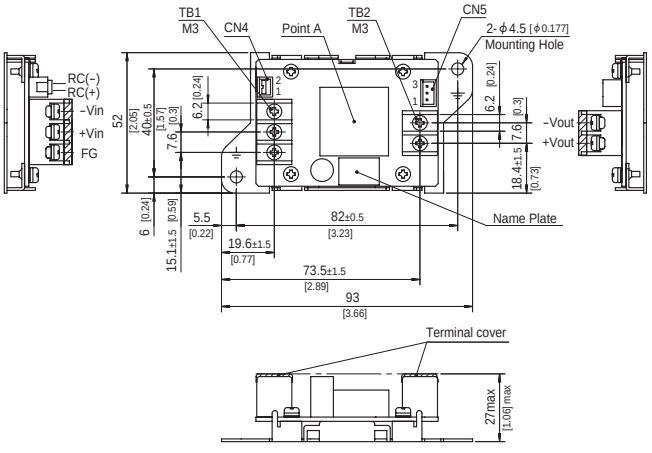


STMG

DIN rail installation type (-N2)



External voltage variable volume type (-V)



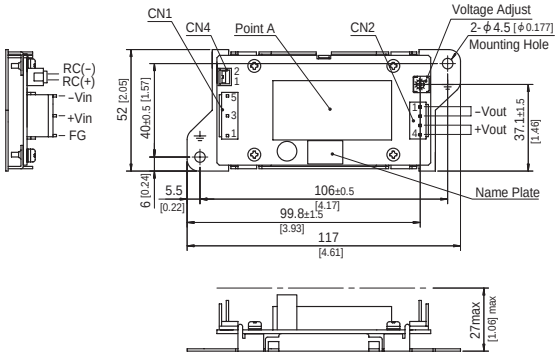
	I/O Connector		Mating Connector	Terminal
Connector Type Input	CN1	B3P5-VH	VHR-5N	Chain : SVH-21T-P1.1
				Loose : BVH-21T-P1.1
Connector Type Output	CN2	B4P-XH	XHP-4	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6
Remote ON/OFF	CN4	B2B-XH	XHP-2	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6
External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

(Mfr.:J.S.T.)

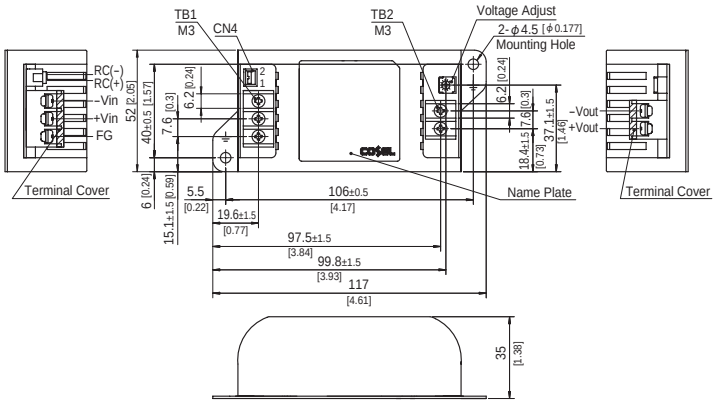
✻ Tolerance ±1
✻ Dimensions in mm, [ ]=inches
✻ Weight : Standard & Connector type 110g max
Case cover & DIN rail installation type 120g max
✻ PCB material / thickness : FR-4 / 1.6mm
✻ Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
✻ Case : PBT
✻ Terminal block screw tightning torque M3 : 0.8N・m (8.5kgf・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.

External view (Option type)

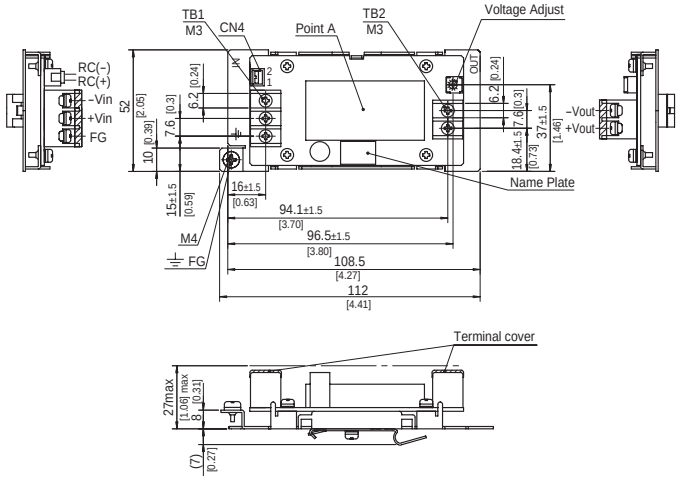
Connector type (-J)



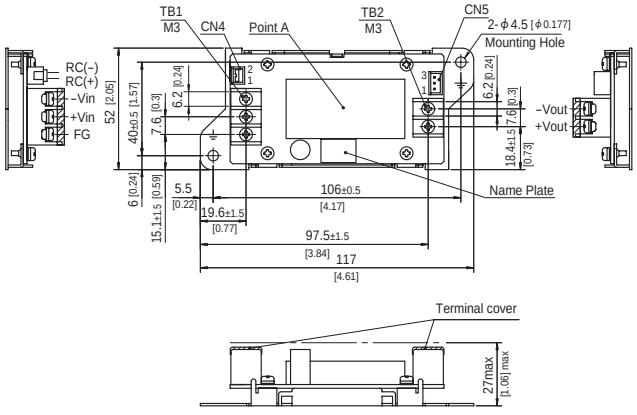
Case cover type (-N1)



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
				Loose : BVH-21T-P1.1
Connector Type Output	CN2	B4P-VH	VHR-4N	Chain : SVH-21T-P1.1
				Loose : BVH-21T-P1.1
Remote ON/OFF	CN4	B2B-XH	XHP-2	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6
External voltage variable volume type	CN5	B3B-XH	XHP-3	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6

(Mfr.:J.S.T.)

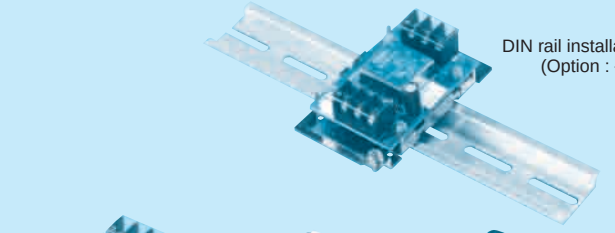
- ✻ Tolerance ±1
- ✻ Dimensions in mm, [ ]=inches
- ✻ Weight : Standard & Connector type 140g max
  Case cover & DIN rail installation type 160g max
- ✻ PCB material / thickness : FR-4 / 1.6mm
- ✻ Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
- ✻ Case : PBT
- ✻ Terminal block screw tightning torque M3 : 0.8N・m (8.5kgf・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 5A for CN2.

COSEL DC-DC Converters Value-added type

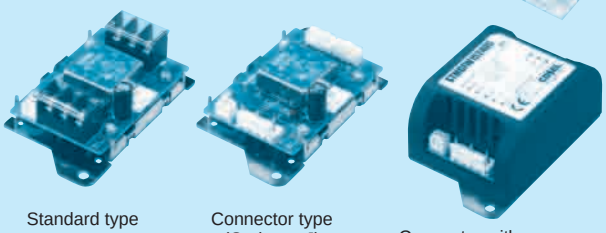
STMGFW15

Ordering information

STMGF W 15 24 05 -□
① ② ③ ④ ⑤ ⑧



DIN rail installation type
(Option : -N2)



Standard type

Connector type
(Option : -J)

Connector with case cover
(Option : -JN1)

①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage
⑥Optional
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	±15 or +30
	CURRENT[A]]	1.5	0.65	0.5	1.5	0.65	0.5

SPECIFICATIONS

STMG

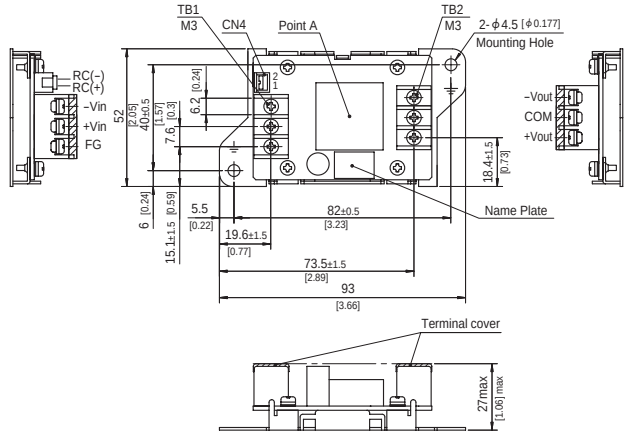
	MODEL		STMGFW152405	STMGFW152412	STMGFW152415	STMGFW154805	STMGFW154812	STMGFW154815
INPUT	VOLTAGE[V]		DC9 - 36			DC18 - 76		
	CURRENT[A]	✻2	0.74typ	0.74typ	0.70typ	0.37typ	0.37typ	0.36typ
	EFFICIENCY[%]	✻2	84typ	88typ	89typ	84typ	87typ	88typ
OUTPUT	VOLTAGE[V]		±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±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
	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
PROTECTION CIRCUIT AND OTHERS	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/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s² (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 oscilloscpe 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℃.
✻ Parailel operation with other model is not possible.

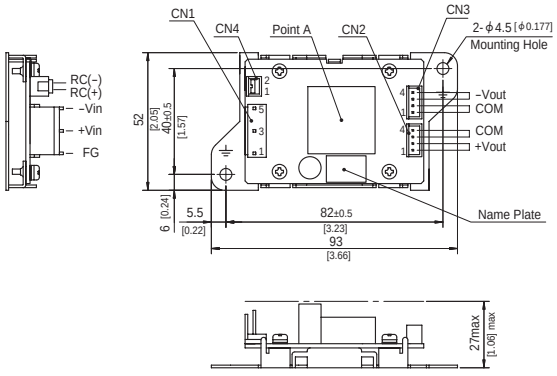
External view

Standard type

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

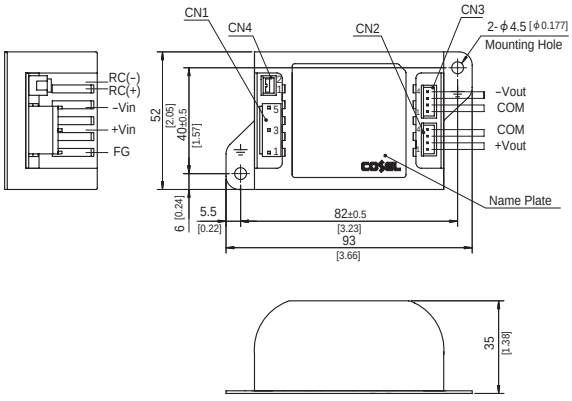


Connector type (-J)

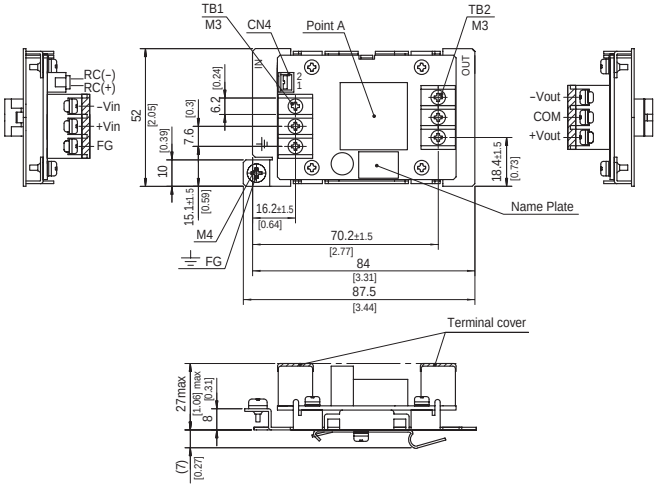


Case cover and connector type (-JN1)

✻ 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
				Loose : BVH-21T-P1.1
Connector Type Output	CN2, CN3	B4B-XH	XHP-4	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6
Remote ON/OFF	CN4	B2B-XH	XHP-2	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6

(Mfr.:J.S.T.)

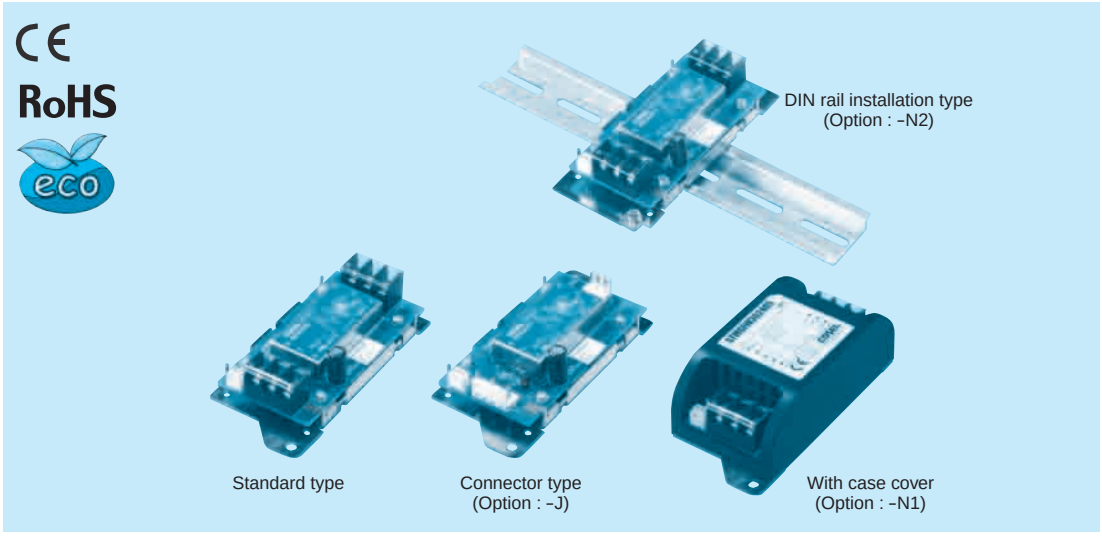
✻ Tolerance ±1
✻ Dimensions in mm, [ ]=inches
✻ Weight : Standard & Connector type 110g max
Case cover & DIN rail installation type 120g max
✻ PCB material / thickness : FR-4 / 1.6mm
✻ Mounting plate : Iron (surface finishing : nickel plating) t=1.0 [0.04]
✻ Case : PBT
✻ Terminal block screw tightning torque M3 : 0.8N・m (8.5kgf・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.

COSEL DC-DC Converters Value-added type

STMGFW30

Ordering information

STMGF	W	30	24	05	-□
①	②	③	④	⑤	⑧



①Series name
②Dual output
③Output wattage
④Input voltage
⑤Output voltage
⑥Optional
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	±15 or +30
	CURRENT[A]]	2	1.25	1	2	1.25	1

SPECIFICATIONS

STMG

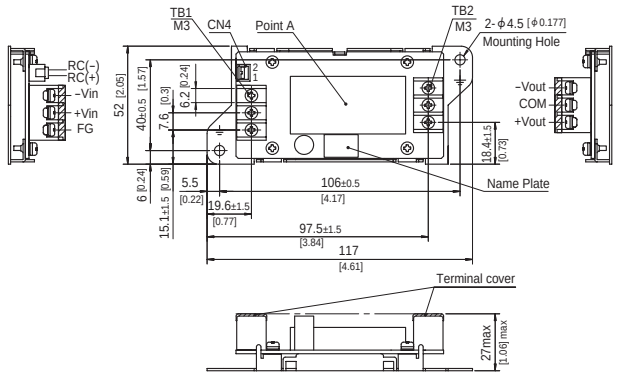
	MODEL		STMGFW302405	STMGFW302412	STMGFW302415	STMGFW304805	STMGFW304812	STMGFW304815
INPUT	VOLTAGE[V]		DC9 - 36			DC18 - 76		
	CURRENT[A]	✻2	0.98typ	1.42typ	1.44typ	0.49typ	0.71typ	0.72typ
	EFFICIENCY[%]	✻2	85typ	88typ	87typ	85typ	88typ	87typ
OUTPUT	VOLTAGE[V]		±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±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
	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
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	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)					
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/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s² (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-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 oscilloscpe 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℃.
✻ Parailel operation with other model is not possible.

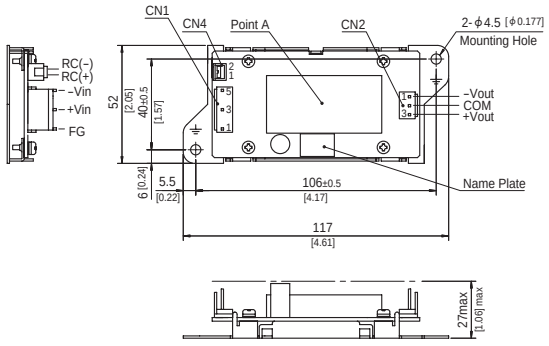
External view

Standard type

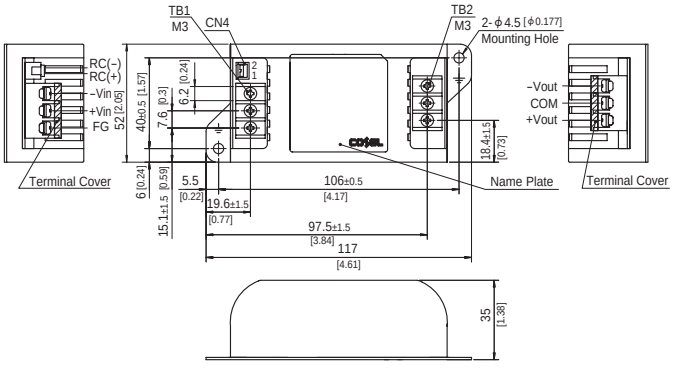
✻ External view of option G, R are the same as standard model.



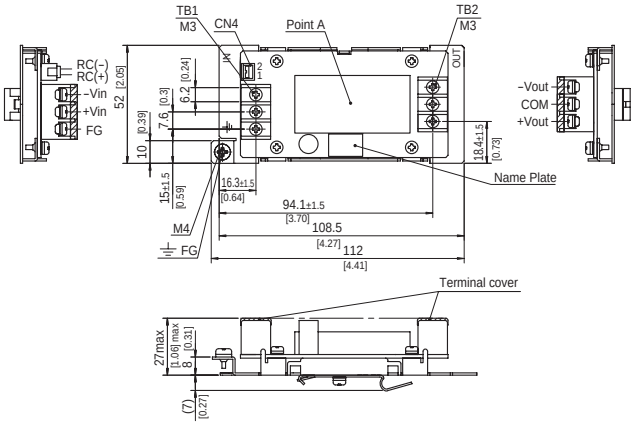
Connector type (-J)



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
				Loose : BVH-21T-P1.1
Connector Type Output	CN2	B3P-VH	VHR-3N	Chain : SVH-21T-P1.1
				Loose : BVH-21T-P1.1
Remote ON/OFF	CN4	B2B-XH	XHP-2	Chain : SXH-001T-P0.6
				Loose : BXH-001T-P0.6

(Mfr.:J.S.T.)

✻ Tolerance ±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 tightning torque M3 : 0.8N・m (8.5kgf・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 5A for CN2.

Mouser Electronics

Authorized Distributor

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Cosel:

STMGFS302412-N1 STMGFS152405 STMGFW302405-N1 STMGFW154805-G STMGFS304805-N2 STMGFS302405-R STMGFW152405-J STMGFS304812-R STMGFS302405-N1 STMGFW302412-R STMGFS154805-N2 STMGFW152405-N2 STMGFS15483R3-JN3 STMGFW304812-N3 STMGFS30483R3 STMGFW152412-N2 STMGFS152415-G STMGFW304805-N3 STMGFW152415-JN3 STMGFW152415-G STMGFS154812-JN1 STMGFW154815-JN1 STMGFW154815 STMGFW302405-R STMGFS30483R3-N1 STMGFS30483R3-R STMGFS304815-G STMGFS152415-JN3 STMGFW154812 STMGFW152412-G STMGFS302415-N1 STMGFS154815-N2 STMGFS302415-G STMGFS15243R3-V STMGFW304815-N2 STMGFW304815-J STMGFS15243R3-R STMGFS304805-V STMGFW302415-J STMGFS302405-V STMGFW304815-G STMGFS15243R3-JN3 STMGFS302412-G STMGFW302412 STMGFW302415-N1 STMGFS304815-N2 STMGFS304805-N3 STMGFS304812 STMGFW302415 STMGFS15483R3-V STMGFS304815-J STMGFS154812-G STMGFS15483R3-N2 STMGFW154812-G STMGFW302405 STMGFW302412-N1 STMGFS152405-G STMGFS15243R3 STMGFS152405-JN3 STMGFS302405 STMGFW304815-N3 STMGFS302415-V STMGFW152412-J STMGFW154812-JN3 STMGFS304815-N1 STMGFW304815-N1 STMGFS154805 STMGFW154815-N2 STMGFW152412-JN1 STMGFW152415-JN1 STMGFS152415-R STMGFS154805-JN1 STMGFW304812-R STMGFS302412-R STMGFW302412-G STMGFS154812-J STMGFW302415-N3 STMGFS304815-V STMGFS154812-R STMGFW304812-N1 STMGFS154815-V STMGFW154812-N2 STMGFS154805-G STMGFW304805-N1 STMGFS302412-N2 STMGFW302405-J STMGFS302415-N2 STMGFW152405 STMGFS30243R3 STMGFW154805 STMGFW152415-N2 STMGFW302415-R STMGFS154805-V STMGFS304812-N3 STMGFW154815-J STMGFS152415 STMGFS152412-R STMGFS30243R3-G STMGFW152415 STMGFW154812-R

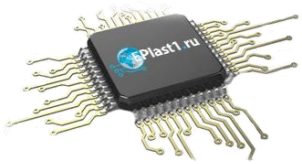
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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