

**CCG15-24-xxS**

C268-01-01C

(This specification sheet also apply to option model /P)

**SPECIFICATIONS**

MODEL		CCG15-24-03S	CCG15-24-05S	CCG15-24-12S	CCG15-24-15S
ITEMS					
<b>INPUT</b>					
Input Voltage Range	VDC	9 - 36			
Efficiency (Typ.) (*1)	%	85	87	88	88
Input Current (Typ.) (*1)	A	0.65	0.72	0.74	0.71
<b>OUTPUT</b>					
Nominal Output Voltage	VDC	3.3	5	12	15
Output Voltage Accuracy (*1)	%	±2			
Maximum Output Current	A	4	3	1.3	1
Maximum Output Power	W	13.2	15	15.6	15
Maximum Line Regulation (*2)	mV	13.2	20	48	60
Maximum Load Regulation (*3)	mV	13.2	20	48	60
Temperature Coefficient	-	0.02%/°C			
Maximum Ripple & Noise (*4)	mVp-p	70	70	95	95
Output Voltage Range (*4)	VDC	2.97 - 3.63	4.5 - 5.5	10.8 - 13.2	13.5 - 16.5
Over Current Protection (*5)	-	105% minimum			
Over Voltage Protection	-	None			
<b>FUNCTION</b>					
Remote ON/OFF Control (*6)	-	Possible			
Remote Sensing	-	None			
Parallel Operation	-	None			
Series Operation (*6)	-	Possible			
<b>ENVIRONMENT</b>					
Operating Temperature (*7)	-	-40°C - +110°C(Case) , -40°C - +85°C(Ambient)			
Storage Temperature	-	-55°C - +125°C			
Operating Humidity	-	5 - 95%RH (No Condensing)			
Storage Humidity	-	5 - 95%RH (No Condensing)			
Vibration (*8)	-	At No Operating, 10-55Hz (Sweep for 3min.) Amplitude 1.52 mm Constant (Maximum 90.8m/s <sup>2</sup> ) X,Y,Z 1 hour each			
Shock (*8)	-	490.3m/s <sup>2</sup>			
Cooling	-	Convection cooled / Forced air cooled			
<b>ISOLATION</b>					
Withstand Voltage (*9)	-	Input-Case : 1.0kVDC for 1min. (10mA) , Input-Output : 1.5kVDC for 1min. (10mA) Output-Case : 1.0kVDC for 1min. (10mA)			
Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH, Output - Case 500VDC			
<b>STANDARD AND COMPLIANCE</b>					
Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1			
<b>MECHANICAL</b>					
Weight (Typ.)	g	20			
Size (W x H x D)	mm	25.4 x 9.9 x 25.4 (Refer to Outline Drawing)			

\*Read Instruction Manual carefully, before using the power supply unit.

=NOTES=

\*1. At 24VDC input voltage and maximum output current. (Ambient Temperature = +25°C.) \*2. 9 - 36VDC input voltage, constant load.

\*3. No Load - Full Load, constant input voltage.

\*4. External components are needed for operation. (Refer to Instruction Manual.)

\*5. OCP TYPE : Hiccup, Automatic recovery.

\*6. Refer to Instruction Manual.

\*7. Rating - Refer to Output Derating Curve in Instruction Manual.

\*8. The result is evaluated by TDK-Lambda standard measurement conditions.

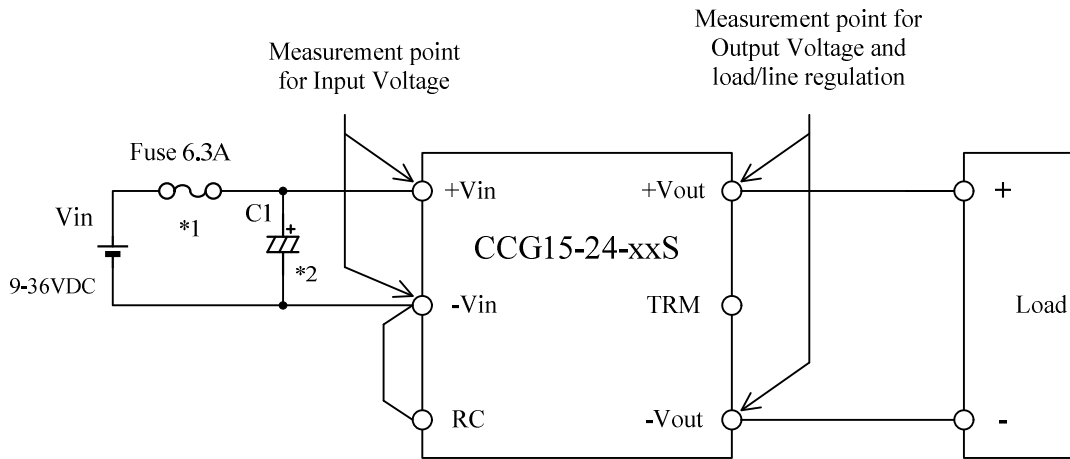
The final equipment should be evaluated to meet its requirements.

\*9. This specification applies to power supply module as stand-alone.

**CCG15-24-xxS**

C268-01-02A

BASIC CONNECTION



\*Read instruction manual carefully, before using the power supply unit.

==NOTES==

\*1. Use an external DC fuse (fast blow type or normal blow type) for each unit.

\*2. Put input capacitor.

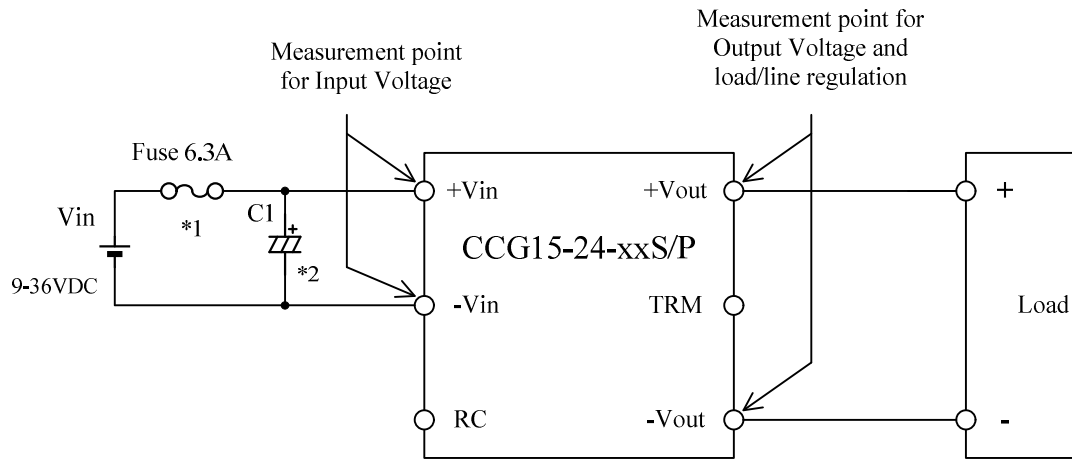
C1 : Electrolytic capacitor More than 50V, 120uF

- 1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
- 2) If the impedance of input line is high, C1 capacitance must be more than above.

**CCG15-24-xxS/P**

C268-01-02/P-A

BASIC CONNECTION



\*Read instruction manual carefully, before using the power supply unit.

==NOTES==

- \*1. Use an external DC fuse (fast blow type or normal blow type) for each unit.
- \*2. Put input capacitor.
  - C1 : Electrolytic capacitor More than 50V, 120uF
    - 1) Use low impedance electrolytic capacitor with excellent temperature characteristics.
    - 2) If the impedance of input line is high, C1 capacitance must be more than above.