

Forced-air cooling





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Dimension					
L	*	W	*	Н	
460	*	211	*	83.5(2U)	mm
18.1	*	8.3	*	3.29(2U)	inch

Water cooling



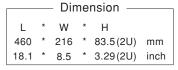


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Ordering No.: HS-684





















■ Features

- 3 ψ 3-wire / \triangle or 3 ψ 4-wire / Y phase voltage 196~305VAC
- Wide voltage adjustment range 1~120%
- · Built-in active PFC function
- · High efficiency up to 95%
- · Water / forced air cooling
- · Output voltage and constant current level programmable
- · Active current sharing up to 4 units
- · Built-in remote ON-OFF control / Alarm signal
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan fail
- 5 years warranty

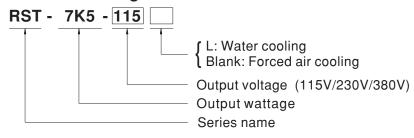
Applications

- · Energy & power system for automation
- U.V or laser diode application
- Test and measurement instrument
- · Laser related machine
- · Burn-in facility
- · RF application
- EV charging station
- · Constant current source

Description

RST-7K5 is a 7.5KW single output enclosed type AC/DC power supply. This series operates for the wide range three phase AC input and offers the models with the DC output(115V/230V/380V) mostly demanded from the industry. The series offers models with two types of cooling methods, forced air and water cooling respectively, that can be, working for the temperature up to 70°C. Moreover, RST-7K5 provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, auxiliary power, etc.

■ Model Encoding





SPECIFICATION

		RST-7K5-115 RS	ST-7K5-230	RST-7K5-380		
	DC VOLTAGE	115V 230	80V	380V		
	CURRENT (max.)	65A 34.	I.5A	22.5A		
	CURRENT RANGE	0 ~ 65A 0 ~	~ 34.5A	0 ~ 22.5A		
	RATED POWER		152W	7515W		
	FULL POWER VOLTAGE RANGE		6 ~ 260V	334 ~ 400V		
	RIPPLE & NOISE (max.) Note.2	1Vp-p 2Vr	/р-р	4Vp-p		
OUTPUT	. ,		70 ~ 260V	260 ~ 400V		
	VOLTAGE ADJ. RANGE	Can be adjusted via built-in potentiometer				
	VOLTAGE TOLERANCE Note.3		1.0%	±1.0%		
	LINE REGULATION		0.5%	±0.5%		
	LOAD REGULATION		0.5%	±0.5%		
	SETUP, RISE TIME	3000ms, 200ms at full load	0.070			
	HOLD UP TIME (Typ.)					
	VOLTAGE RANGE	16ms 230VAC/400VAC at 75% load 10ms Phase voltage 196 ~ 305VAC	s / 230VAC/400VAC at full load			
	FREQUENCY RANGE	47 ~ 63Hz				
			N/AC\ at full land			
NPUT	POWER FACTOR (Typ.)	≥0.98/230VAC(400VAC)/≥0.97/277VAC(480V		05%		
NEUI	EFFICIENCY (Typ.) Note.8		1.5%	95%		
	AC CURRENT (Typ.)	22.5A/230VAC(3 \$\psi\$ 3-wire / \$\triangle\$)				
	INRUSH CURRENT (Typ.)	, ,	/AC(3 ψ 4-wire / Y)			
	LEAKAGE CURRENT	<3.5mA / \(\triangle 305VAC(Y 530VAC) \)				
	OVERLOAD	100 ~ 105% of rated current (overload protection				
		Protection type: Constant current limiting, unit v	· · · · · · · · · · · · · · · · · · ·			
PROTECTION	OVER VOLTAGE		73 ~ 312V	420 ~ 480V		
		Protection type: Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down				
	CURRENT SHARING	Up to 4 units. Please refer to the Function Manu				
		Adjustment of output voltage is allowable to between 1 ~ 120% of nominal output voltage. Please refer to the PV curve Function Manual				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE	Adjustment of constant current level is allowable	le to between 20 ~ 100% of rated current.	Please refer to the Function Manual		
	REMOTE ON-OFF CONTROL	Please refer to the Function Manual				
	ALARM SIGNAL OUTPUT	AC fail, DC OK, fan fail, OTP. Please refer to the Function Manual				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
		UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved				
	SAFETY STANDARDS		V BS EN/EN62368-1, EAC TP TC 004 app	proved		
	SAFETY STANDARDS WITHSTAND VOLTAGE			proved		
		UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV	G:2.8KVDC	proved		
	WITHSTAND VOLTAGE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC	G:2.8KVDC	Test Level / Note		
	WITHSTAND VOLTAGE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC	G:2.8KVDC C/25°C/70% RH	Test Level / Note		
	WITHSTAND VOLTAGE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC	G:2.8KVDC C / 25°C / 70% RH sandard	Test Level / Note		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC	G:2.8KVDC C / 25°C / 70% RH tandard EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11)	Test Level / Note Class B		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Sta Conducted BSB Radiated BSB Harmonic Current BS	G:2.8KVDC C / 25°C / 70% RH tandard E EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) E EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11)	Test Level / Note Class B Class A		
DAFETY 9	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Sta Conducted BSB Radiated BSB Harmonic Current BS	G:2.8KVDC C/25°C/70% RH tandard EEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) EEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-2 S EN/EN61000-3-3	Test Level / Note Class B Class A		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Sta Conducted BSF Radiated BSF Harmonic Current BSF Voltage Flicker BSF BSF EN/EN55024 BSF EN/EN61204-3, BSF EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	G:2.8KVDC C/25°C/70% RH tandard EN/EN55032 (CISPR32)/BS EN/EN55011 (CISPR11) EEN/EN55032 (CISPR32)/BS EN/EN55011 (CISPR11) S EN/EN61000-3-2 S EN/EN61000-3-3 EN61000-6-2	Test Level / Note Class B Class A		
ЕМС	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Sta Conducted BS Radiated BS Radiated BS Harmonic Current BS Voltage Flicker BS EN/EN55024 BS EN/EN61204-3, BS EN/E Parameter Sta	G:2.8KVDC C/25°C/70% RH tandard EN/EN55032 (CISPR32)/BS EN/EN55011 (CISPR11) EEN/EN55032 (CISPR32)/BS EN/EN55011 (CISPR11) S EN/EN61000-3-2 S EN/EN61000-3-3 EN61000-6-2 tandard	Test Level / Note Class B Class A Test Level / Note		
ЕМС	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Sta Conducted BSI Radiated BSI Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter Sta ESD BS	G:2.8KVDC C/25°C/70% RH tandard EE/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) EE/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-2 S EN/EN61000-3-3 EN61000-6-2 tandard S EN/EN61000-4-2	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Sta Conducted BSI Radiated BSI Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Sta ESD BS Radiated BS	G:2.8KVDC C/25°C/70% RH tandard EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-2 S EN/EN61000-3-3 EN61000-6-2 tandard S EN/EN61000-4-2 S EN/EN61000-4-3	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 3		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Sta Conducted BSI Radiated BSI Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter Sta ESD BS Radiated BS EFT / Burst BS	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Sta Conducted BSI Radiated BSI Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter Sta ESD BS Radiated BS EFT / Burst BS Surge BS	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Line		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Sta Conducted BSI Radiated BSI Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter Sta ESD BS Radiated BS EFT / Burst BS Surge BS Conducted BS	G:2.8KVDC C / 25°C / 70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Line Level 3		
SAFETY & EMC (Note 7,9)	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter State	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Line Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/P-FG: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter State Conducted BSI Radiated BSI Harmonic Current BS Woltage Flicker BS BS EN/EN55024 BS EN/EN61204-3 BS EN/E ESD BS Radiated BSI Radiated BSI ET / Burst BS ET / Burst BS ET / Burst BS Surge BS Conducted BSI Magnetic Field BS Surge BS Magnetic Field BS Surge Sur	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
EMC (Note 7,9)	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, CAN/CSA C22.2 No. 62368-1, TUV	G:2.8KVDC C:/25°C/70% RH tandard EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/EN/E	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4, 4KV/Line-Earth ; Level 3, 2KV/Line-Line Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods (25°C)		

NOTE

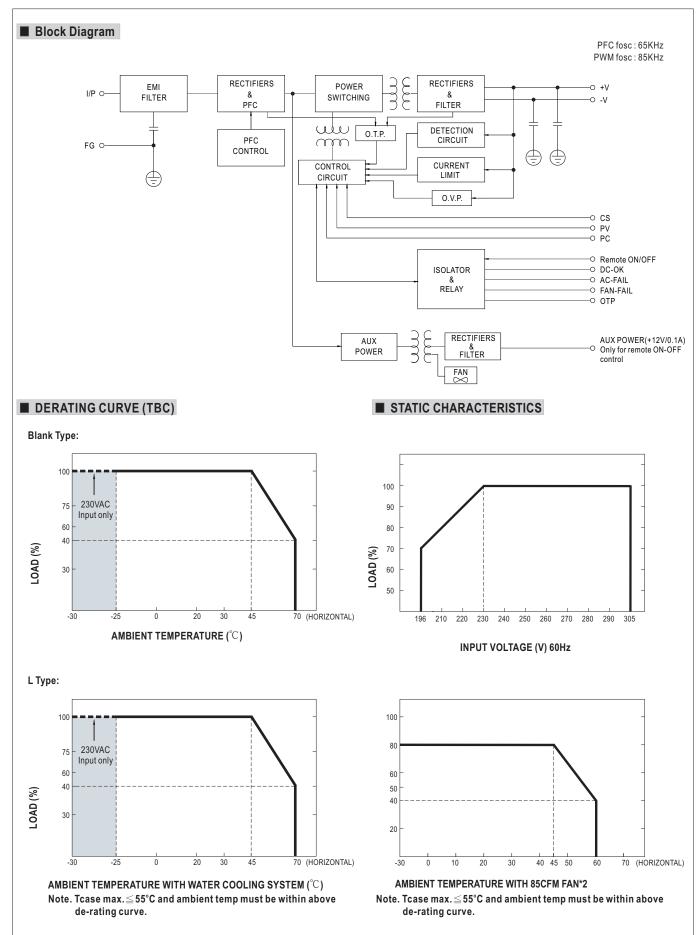
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- 3. Tolerance includes set up tolerance, line regulation and load regulation.
 4. Derating may be needed under low input voltages. Please check the derating curve for more details.
 5. Without water or fan cooling to provide adequate heat dissipation, OTP might be triggered if trimming output voltage by PV signal toward upper or bottom limits of nominal voltage. Under such condition, enhanced cooling on PSU is highly recommended.
- 6. If use PV signal to adjust Vo, under creatin operation conditions, ripple noise of Vo might go over rating defined in this specification.

 7. Need additional EMI filter to meet regulations of EMC conducted and radiated emission. Characteristics of EMI filter please refer to the table, Minimum Insertion Loss.
- 8. The efficiency is measured at \triangle : 230VAC/Y: 400VAC input. The efficiency level is measured at output voltage 115V(115V model)/216V(230V model)/ 334V(380V model).
- 3-17 of the strength of the perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

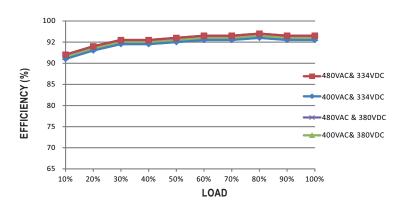
 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







■ EFFICIENCY VS LOAD (380V MODEL)



■ AC Power Connection

 \bigcirc 3 ψ 3-wire / \triangle 230VAC

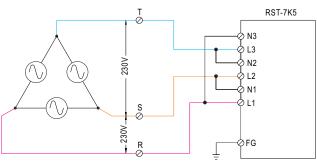


Fig 1.1

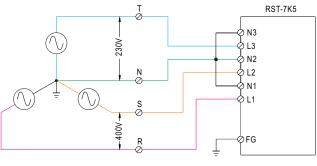


Fig 1.2

■ Note: RST-7K5 can also be operated by 1 \$\psi\$ 2-wire 196~305VAC input. Please refer to the connection diagram below.

Operating with 1 \$\psi\$ 2-wire may lead to certain characteristics different from the specification, such as the larger Ripple and Noise. Should there be any issues, please contact MEAN WELL.

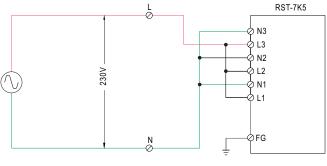


Fig 1.3



■ Function Manual

- 1. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)
- (1)by potentiometer (SVR)
 - (a) Have the DIP switch position-3 set as
 - (b)Output voltage can be trimmed by SVR.
- (2)by Output Voltage Programming
 - (a) Have the DIP switch position-3 set as
 - (b)The output voltage can be trimmed to 1~120% by applying EXTERNAL VOLTAGE between PV+ and PV- on CN86 or CN87.

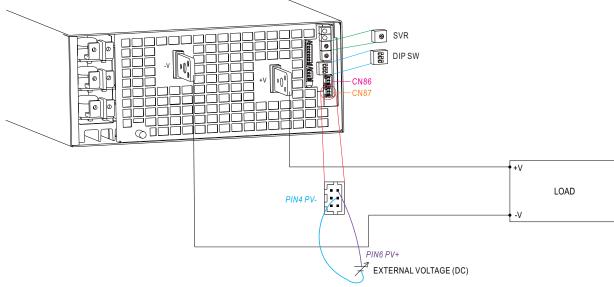
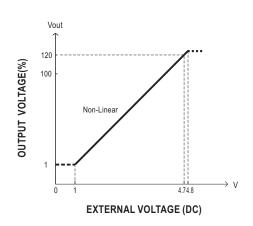
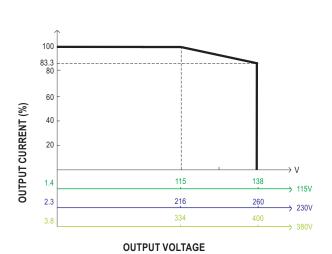


Fig 1.1





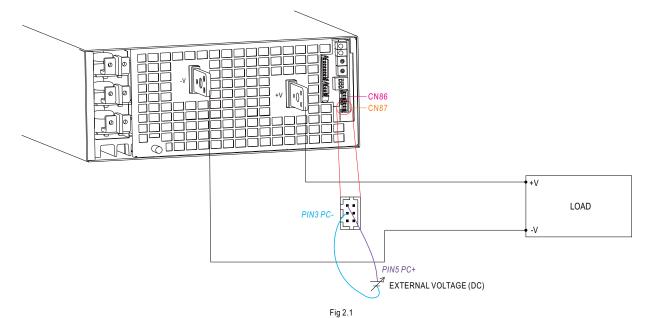
© The rated current should change with the Output Voltage Programming accordingly.

Fig 1.2



2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

- (1)Default Overload Protection(OLP) 100~105% of rated current
 - (a) Have the DIP switch position-2 set as ON OFF
 - (b)Output current is set default value.
- (2)by Constant Current Level Programming on (a)Have the DIP switch position-2 set as
 - (b)The constant current level can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE between PC+ and PC- on CN86 or CN87.



lout 110 OUTPUT CURRENT(%) 100 **EXTERNAL VOLTAGE (DC)**

Fig 2.2

Output will shut down after O/P voltage is below < 80% of Vset for 6 sec, re-power on to recover.

3. Select Overload Protection (OLP) Mode

(1)Continuous Constant Current mode

Have the DIPswitch position-1 set as of [1], and RST-7K5 will work in continuous constant current mode when the output is overloaded and the output voltage is greater than 50% of the rated output voltage.

(2)Delay Shutdown mode

Have the DIPswitch position-1 set as of , and RST-7K5 will shut down after 5 seconds of constant current operation, when the output is overloaded or short-circuited.



4.Remote ON-OFF Control

※ The power supply can be turned ON-OFF by using the "Remote ON-OFF" function.

Between Remote ON-OFF(CN96 pin5,7) and 12V-AUX(CN96 pin1,3)	Output Status
Switch close (Short)	power supply ON
Switch open (Open)	power supply OFF

Table 4.1

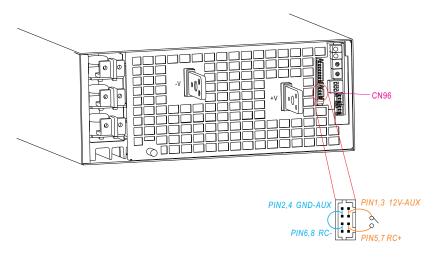
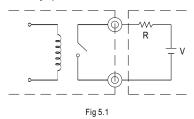


Fig 4.1

5.Alarm Signal Output

- 💥 There are 4 alarm signals on CN99, and each signal can select two types of output circuit.
- (1)Relay contact output {OTP1, OTP1-GND); (DC-OK1, DC-OK1-GND); (AC-FAIL1-GND, AC-FAIL1); (FAN-FAIL1-GND, FAN-FAIL1)} Normally open contact. "Short" when the alarm arises. Relay contact rating(maximum) is 30V/1A resistive.



(2)Open collector output {DC-OK2-GND, DC-OK2); (AC-FAIL2-GND, AC-FAIL2); (OTP2, OTP2-GND); (FAN-FAIL2, FAN-FAIL2-GND)} An external voltage source is required for this function that is shown in Fig 5.2. These signals are isolated from output. The maximum sink current is 10mA and the maximum external voltage is 20V (there is a built-in 24V zener diode in inner circuitry).

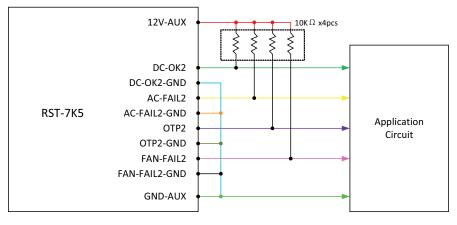


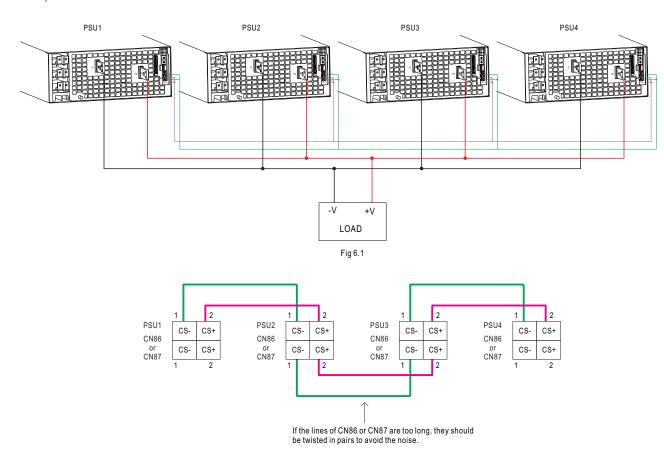
Fig 5.2



6.Current Sharing

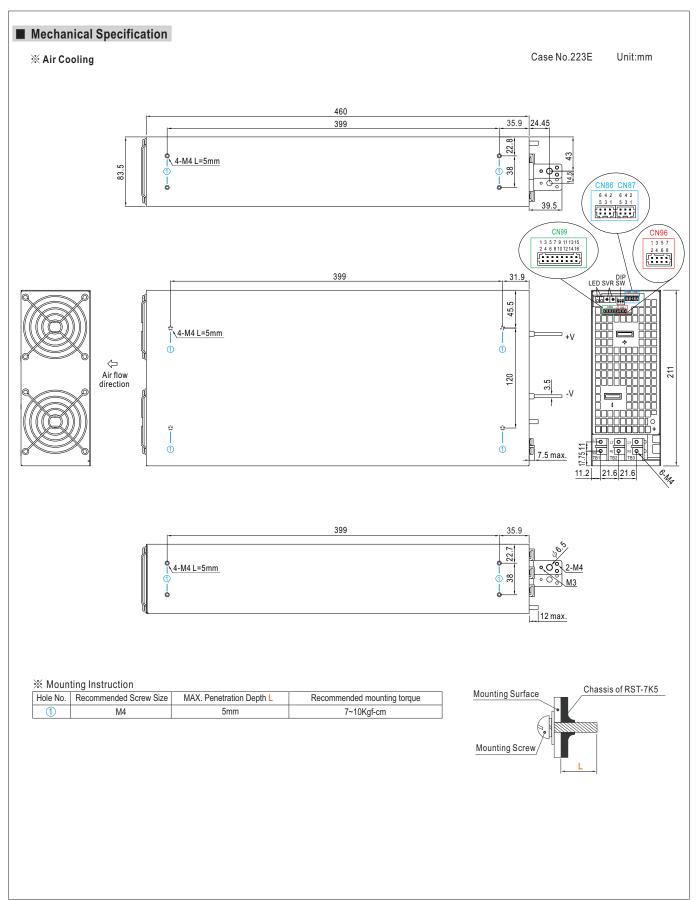
RST-7K5 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below:

- % The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- 💥 In parallel connection, power supply with the highest output Voltage will be the master unit and its Vout will be the DC bus voltage.
- ** The total output current must not exceed the value determined by the following equation:
 Maximum output current at parallel operation=(Rated current per unit) × (Number of unit) × 0.95
- ** When the total output current is less than 5% of the total rated current, or say (5% of Rated current per unit) \times (Number of unit) the current shared among units may not be balanced.
- W Under parallel operation ripple of the output voltage may be higher than the SPEC at light load condition. It will go back to normal ripple level once the output load is more than 5%.

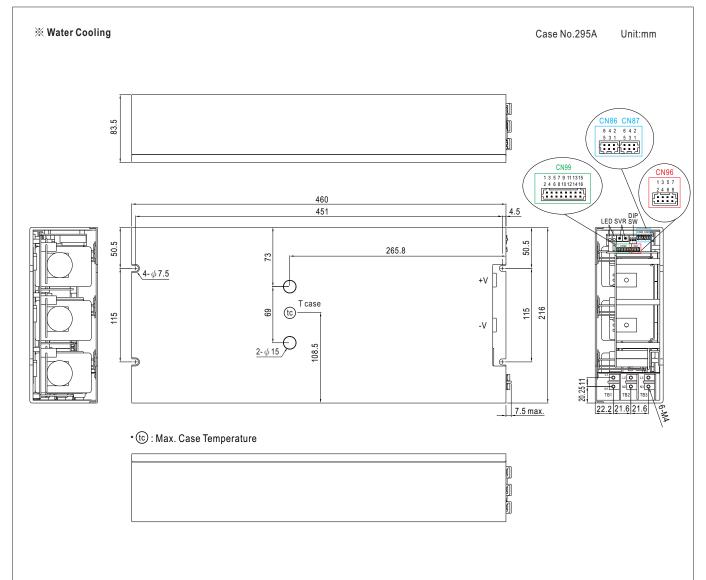


© CS+,CS- are connected mutually in parallel.









※ Control Pin No. Assignment (CN86,CN87): HRS DF11-06DP-2DS or equivalent



Terminal HRS DF11-**SC or equivalent	

O CN86 and CN87 are connected internally.

Pin No.	Function	Description
1	CS-	Current sharing signal. When units are connected in parallel, the CS pins of the units should be connected to allow current balance
2	CS+	between units.
3	PC-	Connection for output current programming.
4	PV-	Connection for output voltage programming.
5	PC+	Connection for output current programming.
6	PV+	Connection for output voltage programming.





※ Control Pin No. Assignment (CN96): HRS DF11-08DP-2DS or equivalent

1



Mating Housing	HRS DF11-08DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

Pin No.	Function	Description
1,3	12V-AUX	Auxiliary voltage output, 11.4~12.6V, referenced to pin 3(GND-AUX). The maximum load current is 0.1A. This output is not controlled by the "Remote ON/OFF" function.
2,4	GND-AUX	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+V & -V).
5,7	RC+	
6,8	RC-	The output can be turned ON-OFF in association with RC+ and RC

※ Control Pin No. Assignment (CN99): HRS DF11-16DP-2DS or equivalent

1 1



Mating Housing	HRS DF11-16DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

Pin No.	Function	Description
1	DC-OK1	Alarm signal of DC-OK. Normally open contact. "Short" when the PSU turns on. Relay contact rating(maximum) is 30V/1A resistive.
2	AC-FAIL1	Alarm signal of AC-fail. Normally open contact. "Short" when the PSU input voltage is too low. Relay contact rating(maximum) is 30V/1A resistive.
3	DC-OK1-GND	Alarm signal of DC-OK. Normally open contact. "Short" when the PSU turns on. Relay contact rating(maximum) is 30V/1A resistive.
4	AC-FAIL1-GND	Alarm signal of AC-fail. Normally open contact. "Short" when the PSU input voltage is too low. Relay contact rating(maximum) is 30V/1A resistive.
5	DC-OK2	Alarm signal of DC-OK. Open collector signal. Low when the PSU turns on. The maximum sink current is 10mA and the maximum external voltage is 20V.
6	AC-FAIL2	Alarm signal of AC fail. Open collector signal. Low when the PSU input voltage is too low. The maximum sink current is 10mA and the maximum external voltage is 20V.
7	DC-OK2-GND	Alarm signal of DC-OK. Open collector signal. Low when the PSU turns on. The maximum sink current is 10mA and the maximum external voltage is 20V.
8	AC-FAIL2-GND	Alarm signal of AC fail. Open collector signal. Low when the PSU input voltage is too low. The maximum sink current is 10mA and the maximum external voltage is 20V.
9	OTP1	Alarm signal of OTP. Normally open contact. "Short" when the PSU over temperature protection occurs. Relay contact rating(maximum) is 30V/1A resistive.
10	FAN-FAIL2	Alarm signal of fan fail. Open collector signal. Low when the internal fan fails. The maximum sink current is 10mA and the maximum external voltage is 20V.
11	OTP1-GND	Alarm signal of OTP. Normally open contact. "Short" when the PSU over temperature protection occurs. Relay contact rating(maximum) is 30V/1A resistive.
12	FAN-FAIL2-GND	Alarm signal of fan fail. Open collector signal. Low when the internal fan fails. The maximum sink current is 10mA and the maximum external voltage is 20V.
13	OTP2	Alarm signal of OTP. Open collector signal. Low when the PSU over temperature protection occurs. The maximum sink current is 10mA and the maximum external voltage is 20V.
14	FAN-FAIL1	Alarm signal of fan fail. Normally open contact. "Short" when the internal fan fails. Relay contact rating(maximum) is 30V/1A resistive.
15	OTP2-GND	Alarm signal of OTP. Open collector signal. Low when the PSU over temperature protection occurs. The maximum sink current is 10mA and the maximum external voltage is 20V.
16	FAN-FAIL1-GND	Alarm signal of fan fail. Normally open contact. "Short" when the internal fan fails. Relay contact rating(maximum) is 30V/1A resistive.



%LED Status Indicators

LED	Description	
Green(LED1)	LED on when output voltage is OK	
Red(LED2) LED on when any protection occurs		

XAC Input Terminal Pin No. Assignment (TB1 or TB2 or TB3)

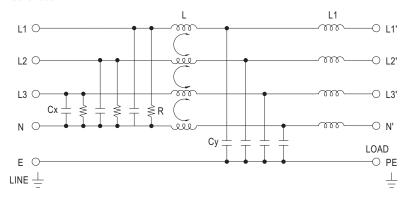
Pin No.	Assignment	Diagram	Maximum mounting torque
1	AC/L	TB1 TB2 TB3 1	7~10Kqf-cm
2	AC/N	2 0 2 0 2 0	3

XDIP Switch Position Assignment(DIP-SW): Please refer to the Function Manual.

Pin No.	Assignment	Diagram
1	Overload Protection (OLP)	1 2 3
2	Output Current Programming (PC)	ON DIP-SW PIN2:PC
3	Output Voltage Programming (PV)	OFF DIP-SW PIN3:PV

■ GUIDANCE OF ADDITIONAL FILTER

1.Schematic



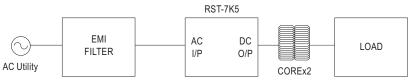
2.Minimum insertion loss (In dB at 50 Ω system): Filter model FN 354-25-47 or equivalent

FREQ. MHz	0.01	0.05	0.10	0.15	0.50	1.0	5.0	10	30
COM. MODE dB	2	18	34	45	80	80	80	70	58
DIF. MODE dB	10	18	30	45	60	55	76	80	66

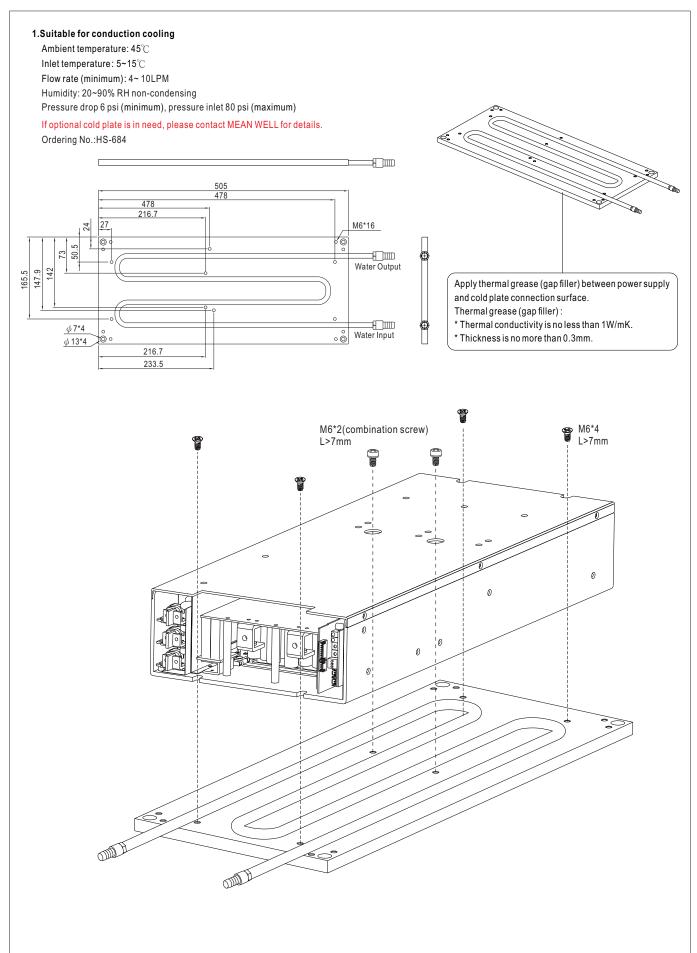
3. Minimum Impedance: Core model 4A11 or equivalent

FREQ. MHz	10	20	30	50	60	80	90	100	120
$Z(\Omega)$	70.5	93.7	111	136	145	156	160	166	180

4.Configration

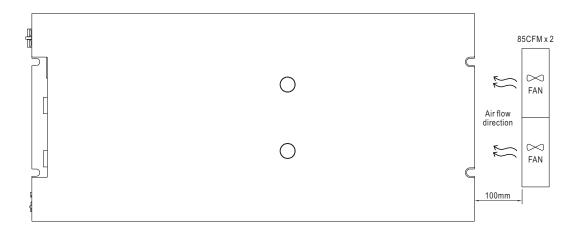








2.With 85CFM forced air



■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html