

Dimension -

L * W * H 540 * 424 * 83.5(2U) mm

21.3 * 16.7 * 3.29(2U) inch



Front



Back























- 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 94.5%
- · Forced air cooling
- Output voltage and constant current level programmable
- · Active current sharing up to 2 units
- · Built-in remote ON-OFF control / Alarm signal
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan fail
- 5 years warranty

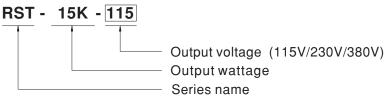
■ Applications

- 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-15K is a 15KW 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. This series provides models with forced air cooling, that can be, working for the temperature up to 70° C. Moreover, RST-15K 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-15K-115 RS	ST-15K-230	RST-15K-380					
	DC VOLTAGE	115V 23	30V	380V					
	CURRENT (max.)	130A 69	9A	45A					
	CURRENT RANGE	0 ~ 130A 0 ~	~ 69A	0 ~ 45A					
	RATED POWER	14950W 149	904W	15030W					
	FULL POWER VOLTAGE RANGE	115 ~ 138V 216	6 ~ 260V	334 ~ 400V					
	RIPPLE & NOISE (max.) Note.2		/p-p	4Vp-p					
DUTPUT	The second control of the second		70 ~ 260V	260 ~ 400V					
0011 01	VOLTAGE ADJ. RANGE	90 ~ 138V 170 ~ 260V 260 ~ 400V Can be adjusted via built-in potentiometer							
	VOLTAGE TOLERANCE Note.3								
	LINE REGULATION		0.5%	±0.5%					
			0.5%						
	LOAD REGULATION		.0.5%	±0.5%					
	SETUP, RISE TIME	3000ms, 200ms at full load	/000/40/400/40 / C III						
	HOLD UP TIME (Typ.)		s / 230VAC/400VAC at full load						
	VOLTAGE RANGE	Phase voltage 196 ~ 305VAC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	$\geq 0.98/230 \text{VAC}(400 \text{VAC}) / \geq 0.97/277 \text{VAC}(480)$	OVAC) at full load						
NPUT	EFFICIENCY (Typ.) Note.8	93.5% 94	1%	94.5%					
	AC CURRENT (Typ.)	45A/230VAC(3 \(\psi \) 3-wire / \(\triangle \) 26A/230VA	/AC(3 ψ 4-wire / Y)						
	INRUSH CURRENT (Typ.)	150A/230VAC(3 \(\psi \) 3-wire / \(\triangle \) 100A/230	30VAC(3 ψ 4-wire / Y)						
	LEAKAGE CURRENT	<3.5mA / \(\triangle 305VAC(Y 530VAC)							
		100 ~ 105% of rated current (overload protection	on value)						
	OVERLOAD	Protection type : Constant current limiting, unit	· · · · · · · · · · · · · · · · · · ·	recover					
PROTECTION			73 ~ 312V	420 ~ 480V					
INOILOIION	OVER VOLTAGE			420 400V					
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down							
	CURRENT SHARING	Shut down o/p voltage, recovers automatically after temperature goes down							
-		Up to 2 units. Please refer to the Function Manual							
- IIII OTIONI		Adjustment of output voltage is allowable to between 1 ~ 120% of nominal output voltage. Please refer to the PV curve Function Manual							
-UNCTION		Adjustment of constant current level is allowable to between 20 ~ 100% of rated current. Please refer to the Function Manual							
	REMOTE ON-OFF CONTROL	Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to the Function Manual.							
	ALARM SIGNAL OUTPUT		ne Function Manual.						
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
		20 ~ 90% RH non-condensing							
	WORKING HUMIDITY	-40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH non-condensing							
ENVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +85 $^{\circ}$ C , 10 ~ 95% RH non-condensing							
ENVIRONMENT		±0.03%/°C (0~45°C)							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-	ong X, Y, Z axes						
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	±0.03%/°C (0~45°C)		proved					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	$\pm 0.03\%$ /°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo	V BS EN/EN62368-1, EAC TP TC 004 app	proved					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alc UL62368-1, CAN/CSA C22.2 No. 62368-1, TU\	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC	proved					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo UL62368-1, CAN/CSA C22.2 No. 62368-1, TU\ 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	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC	proved Test Level / Note					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each ald UL62368-1, CAN/CSA C22.2 No. 62368-1, TU\ I/P-O/P:4.3KVDC	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH	Test Level / Note					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo UL62368-1, CAN/CSA C22.2 No. 62368-1, TU\ 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 St: Conducted BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard	Test Level / Note Class B					
NVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard EEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11)	Test Level / Note Class B					
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-12	Test Level / Note Class B Class A					
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard 6 EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) 6 EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-12 S EN/EN61000-3-3	Test Level / Note Class B Class A					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard 6 EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) 6 EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) 8 EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) 8 EN/EN61000-3-12 8 EN/EN61000-3-3 EN61000-6-2	Test Level / Note Class B Class A					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St:	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard SEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-12 S EN/EN61000-3-3 EN/E1000-6-2 tandard	Test Level / Note Class B Class A Test Level / Note					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St: ESD BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard E EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) S EN/EN61000-3-12 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					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St. Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St. ESD BS Radiated BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard B EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) B EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) B EN/EN65032 (CISPR32) / BS EN/EN55011 (CISPR11) B EN/EN61000-3-12 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					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St. Conducted BS Radiated BS Harmonic Current BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St. ESD BS Radiated BS Radiated BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C / 25°C / 70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 S EN/EN61000-3-3 EN61000-6-2 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4	Test Level / Note Class B Class A Test Level / Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St: ESD BS Radiated BS Radiated BS EFT / Burst BS Surge BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-4 BEN/EN61000-4-5	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, 4KV/Line-Earth ; Level 3, 2KV/Line-Li					
SAFETY & EMC Note 7,9)	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St: ESD BS Radiated BS Radiated BS EFT / Burst BS Surge BS Conducted BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-5 BEN/EN61000-4-5 BEN/EN61000-4-6	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, 4KV/Line-Earth ; Level 3, 2KV/Line-Li Level 3					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	## ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alo 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 St: Conducted BS Radiated BS Harmonic Current BS Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS EN/E Parameter St: ESD BS Radiated BS Radiated BS EFT / Burst BS Surge BS Conducted BS	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-4 BEN/EN61000-4-5	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-Li Level 3 Level 4					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	### ### ##############################	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-5 BEN/EN61000-4-5 BEN/EN61000-4-6	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-Line-Line-Line-Line-Line-Line-					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	### ### ##############################	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-5 BEN/EN61000-4-6 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-11	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-Line-Line-Line-Line-Line-Line-					
SAFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	### ##################################	V BS EN/EN62368-1, EAC TP TC 004 app G:2.8KVDC C:/25°C/70% RH tandard BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BEN/EN61000-3-12 BEN/EN61000-3-3 EN61000-6-2 tandard BEN/EN61000-4-2 BEN/EN61000-4-3 BEN/EN61000-4-4 BEN/EN61000-4-5 BEN/EN61000-4-6 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-8 BEN/EN61000-4-11	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, 4KV/Line-Earth; Level 3, 2KV/Line-Li Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods					

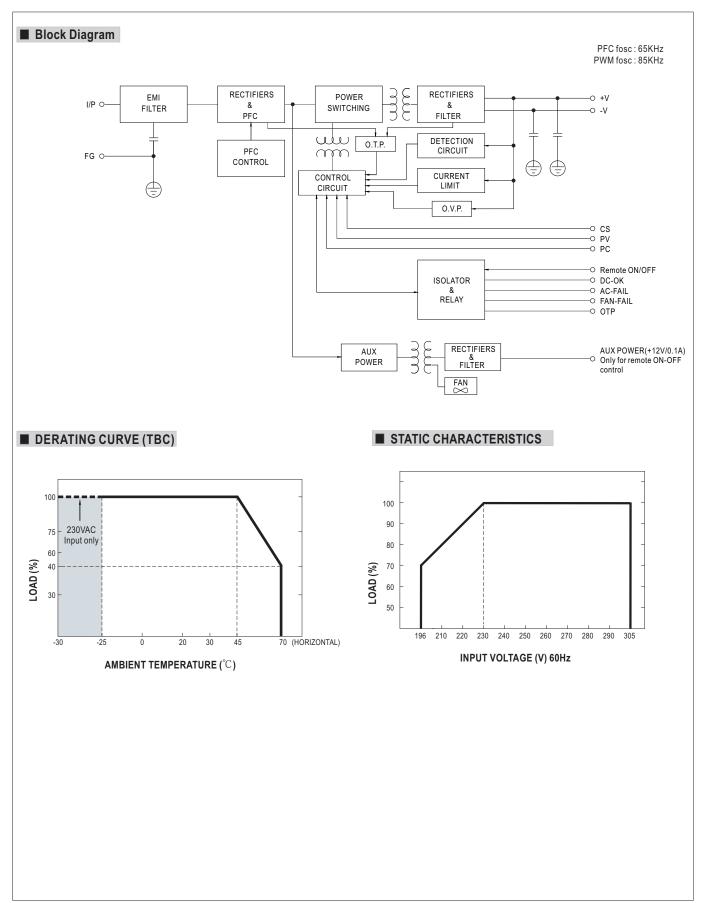
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance :includes set up tolerance, line regulation and load regulation.
- 4. Derating may be needed under low input voltages. Please check the derating curve for more details.

 5. Without 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).
- 9. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 600mm*900mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

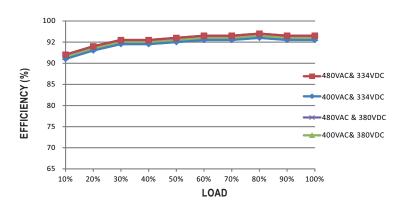
 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





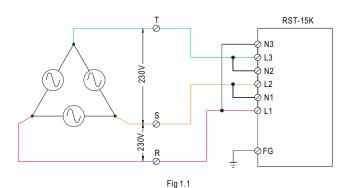


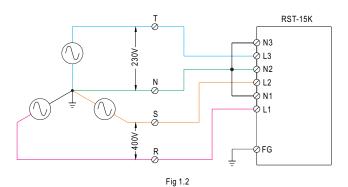
■ EFFICIENCY VS LOAD (380V MODEL)



■ AC Power Connection

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





■ Note: RST-15K 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.

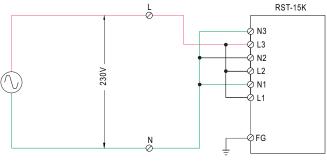
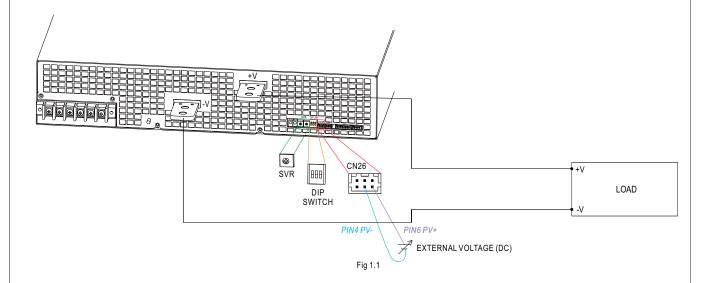


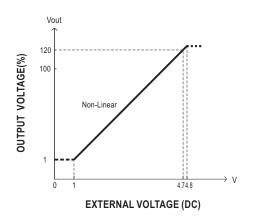
Fig 1.3

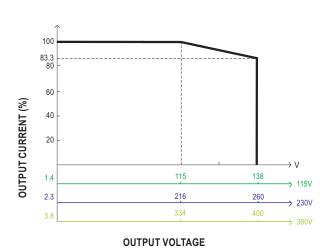


■ Function Manual

- 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 CN26 or CN27.







© 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 CN26 or CN27.

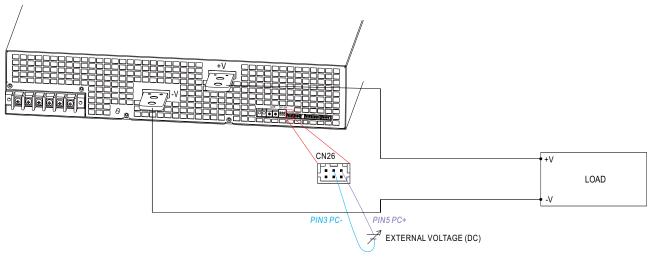


Fig 2.1

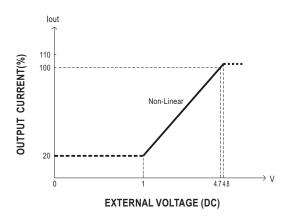


Fig 2.2

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

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-15K will shut down after 5 seconds of constant current operation, when the output is overloaded or short-circuited.

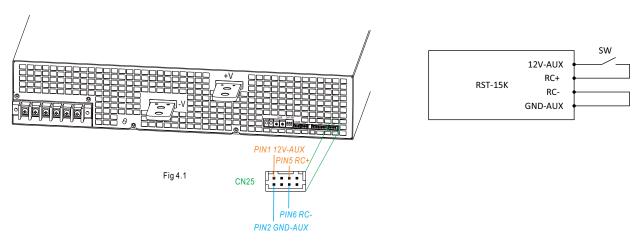


4.Remote ON-OFF Control

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

Between Remote ON-OFF(CN25 pin5) and 12V-AUX(CN25 pin1)	Output Status
Switch close (Short)	power supply ON
Switch open (Open)	power supply OFF

Table 4.1



5.Alarm Signal Output

- imes There are 4 alarm signals on CN22, 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.

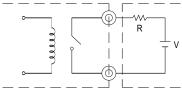


Fig 5.1

(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).

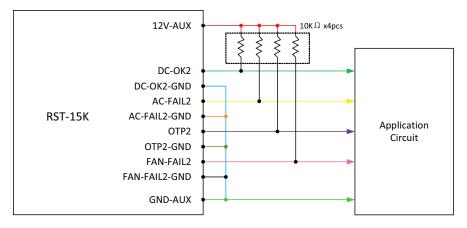


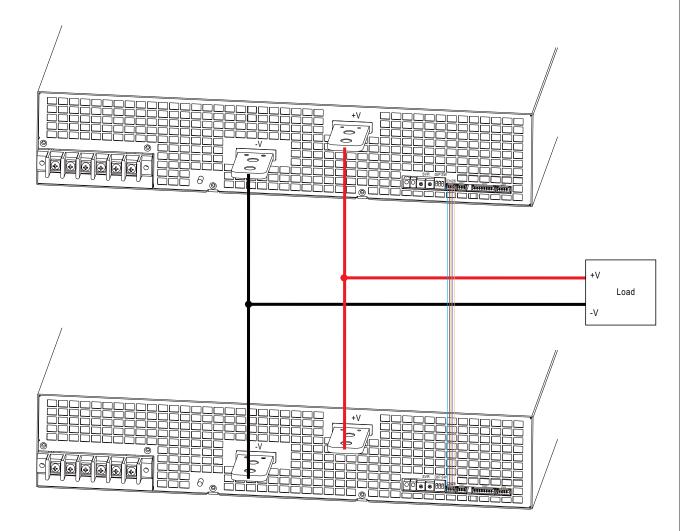
Fig 5.2



6.Current Sharing

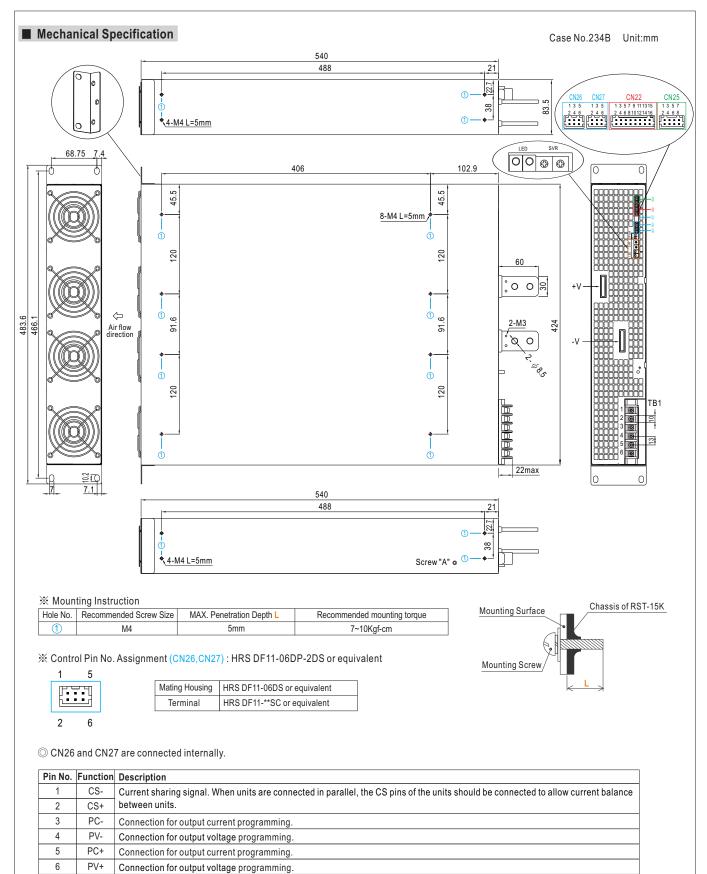
RST-15K has the built-in active current sharing function and can be connected in parallel, up to 2 units, to provide higher output power as exhibited below:

- * The voltage difference among each output should be minimized that less than 0.2V is required.
- X The total output current must not exceed the value determined by the following equation.
 Maximum output current at parallel operation=(The rated current per unit)x(Number of unit)x0.95
- *When the total output current is less than 5% of the total rated current, or say (5% of Rated current per unit) × (Number of unit) the current shared among units may not be fully balanced.



 \bigcirc CS+, CS- and RC+, RC- are connected mutually in parallel.







15KW HVDC Single Output Power Supply

※ Control Pin No. Assignment (CN22): 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.

※ Control Pin No. Assignment (CN25): 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



%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)

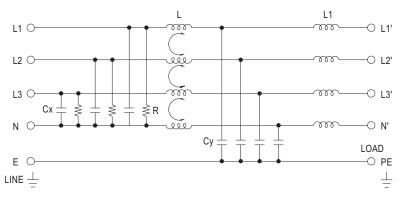
Pin No.	Assignment	Pin No.	Assignment	Di	agram	Maximum mounting torque
1	AC/L1	4	AC/N2		اطاطاطاطاطا	
2	AC/N1	5	AC/L3	00000		18Kgf-cm
3	AC/L2	6	AC/N3			

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 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

■ GUIDANCE OF ADDITIONAL FILTER

1.Schematic



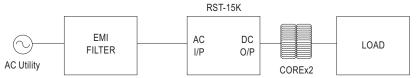
2.Minimum insertion loss (In dB at 50 Ω system): Filter model FN 354-25-47 or equivalent

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



■ Installation Manual

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