

#### Dimension

\* W \* H

540 \* 424 \* 83.5(2U) mm 21.3 \* 16.7 \* 3.29(2U)

























- 3  $\psi$  3-wire /  $\triangle$ 196~305VAC or 3  $\psi$  4-wire / Y 340~530VAC
- · High efficiency up to 94%
- · Forced air cooling
- · Output voltage and constant current level programmable
- Wide voltage adjustment range 1~120%
- Active current sharing up to 2 units(28.5KW)
- · 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
- U.V or laser diode application
- Electrolysis system
- · Factory control or automation apparatus
- Burn-in facility
- · RF application
- EV charging station

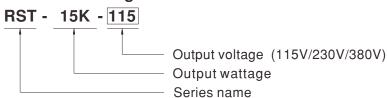
#### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

## Description

RST-15K-HV is a 15KW 3  $\phi$  input enclosed type AC/DC power supply. This series operates for the wide range three phase AC input and offers the models with the high voltage DC output(115V/230V/380V) that mostly demanded from the industry. This series provides models with forced air cooling, that can be working at ambient temperature up to 70°C. Moreover, RST-15K-HV provides vast design flexibility by equipping various built-in functions such as the output programming, active current sharing, remote ON-OFF control, alarm signals.....etc.

### Model Encoding





#### **SPECIFICATION**

MODEL		RST-15K-115	RST-15K-230	RST-15K-380			
DC VOLTAGE (factory default)		115V	230V	380V			
	CURRENT (factory default)	130A	64.8A	39.55A			
	CURRENT RANGE	0 ~ 130A	0 ~ 69A	0 ~ 45A			
	RATED POWER	14950W	14904W	15030W			
	FULL POWER VOLTAGE RANGE		216 ~ 260V	334 ~ 400V			
	RIPPLE & NOISE (max.) Note.2		2Vp-p	4Vp-p			
OUTPUT	THI I LE G HOIGE (Max.) Note.2	90 ~ 138V	170 ~ 260V	260 ~ 400V			
0011 01	VOLTAGE ADJ. RANGE	Can be adjusted via built-in potentiometer	170 2007	200 4000			
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	3000ms, 200ms at full load					
	HOLD UP TIME (Typ.)	16ms 230VAC/400VAC at 75% load 10ms / 230VAC/400VAC at full load					
	VOLTAGE RANGE	3 \$\psi\$ 3W/\$\rightarrow\$196~305VAC or 3 \$\psi\$ 4W/Y 340~\$	530VAC				
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	≥ 0.98/230VAC(400VAC)/≥ 0.97/277VAC(4	480VAC) at full load				
INPUT	EFFICIENCY (Typ.) Note.7	, ,	94%	94%			
	AC CURRENT (Typ.)		00VAC(3 ψ 4-wire / Y)				
	INRUSH CURRENT (Typ.)	,	400VAC(3 ψ 4-wire / Y)				
	LEAKAGE CURRENT	<3.5mA/Y 530VAC <21mA /△305VAC					
		100 ~ 107% of rated current					
	OVERLOAD	Protection type : Constant current limiting. A	After O/P voltage falls, unit will shut down aft	ter 5 sec, re-power on to recover			
PROTECTION		145 ~ 166V	273 ~ 312V	420 ~ 480V			
KOILOIION	OVER VOLTAGE			120 1001			
	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	Up to 2 units. Please refer to the Function M					
		ABLE Adjustment of output voltage is allowable between 1 ~ 120% of nominal output voltage. Please refer to the PV curve Funct					
	OUTPUT VOLTAGE PROGRAMMARI E	'		use refer to the PV curve Function Manual			
FUNCTION		Adjustment of output voltage is allowable betw	veen 1 ~ 120% of nominal output voltage. Plea				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow	veen 1 ~ 120% of nominal output voltage. Plea				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP.	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve")	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P				
	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P				
	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P				
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	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 $\sim$ +70 $^{\circ}$ C (Refer to "Derating Curve") 20 $\sim$ 90% RH non-condensing -40 $\sim$ +85 $^{\circ}$ C, 10 $\sim$ 95% RH non-condensing $\pm$ 0.03%/ $^{\circ}$ C (0 $\sim$ 45 $^{\circ}$ C) 10 $\sim$ 500Hz, 2G 10min./1cycle, 60min. each	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. P to the Function Manual.	lease refer to the Function Manual			
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ENVIRONMENT	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please value between 20 ~ 100% of rated current. Please value	proved  Test Level / Note Class A Class A			
ENVIRONMENT	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2	proved  Test Level / Note Class A Class A			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG: 2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard	proved  Test Level / Note Class A Class A Test Level / Note			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard BS EN/EN61000-4-2	proved  Test Level / Note Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3	proved  Test Level / Note Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst	veen 1 ~ 120% of nominal output voltage. Plea rable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Please refer to the Function Manual  proved  Test Level / Note  Class A  Class A   Test Level / Note  Level 3, 8KV air ; Level 2, 4KV contact  Level 3  Level 3			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please value	Please refer to the Function Manual  proved  Test Level / Note Class A 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			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge Conducted	veen 1 ~ 120% of nominal output voltage. Plea rable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Please refer to the Function Manual  proved  Test Level / Note  Class A  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-Liu  Level 3			
ENVIRONMENT  SAFETY & EMC (Note 8)	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw. Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Plea vable between 20 ~ 100% of rated current. Plea vable between 20 ~ 100% of rated current. Plea vable between 20 ~ 100% of rated current. Plea vable between 20 ~ 100% of rated current. Plea value v	Please refer to the Function Manual  proved  Test Level / Note  Class A  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			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge Conducted	veen 1 ~ 120% of nominal output voltage. Plea rable between 20 ~ 100% of rated current. Please the Function Manual.  along X, Y, Z axes TUV BS EN/EN62368-1, EAC TP TC 004 ap P-FG:2.8KVDC /DC / 25°C / 70% RH Standard BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN55032 (CISPR32) / BS EN/EN55011 (CISPR11) BS EN/EN61000-3-12 BS EN/EN61000-3-11 EN/EN61000-6-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Please refer to the Function Manual  proved  Test Level / Note Class A 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-Lin Level 3 Level 4			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw. Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please value	proved  Test Level / Note Class A 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 period >95% interruptions 250 periods			
ENVIRONMENT  SAFETY & EMC	CONSTANT CURRENT LEVEL PROGRAMMABLE REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of output voltage is allowable betw Adjustment of constant current level is allow Please refer to the Function Manual AC fail, DC OK, fan fail, OTP. Please refer to -30 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-condensing ±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle, 60min. each UL62368-1, CAN/CSA C22.2 No. 62368-1, I/P-O/P:4.3KVDC I/P-FG:2.8KVDC O/F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN55024 , BS EN/EN61204-3, BS E Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	veen 1 ~ 120% of nominal output voltage. Plea vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please vable between 20 ~ 100% of rated current. Please value	roved  Test Level / Note Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			

15KW 3  $\phi$  4W Input With High Voltage Output

#### NOTE

- 1. All parameters NOT specially mentioned are measured at △230VAC(Y 400VAC) input, rated load and 25°C of ambient temperature. 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. During withstand voltage and isolation resistance testing, the screw "A" shall be temporarily removed, and shall be installed back after the testing.

- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.

  6. If use PV signal to adjust Vo, under creatin operation conditions, ripple noise of Vo might go over rating defined in this specification.

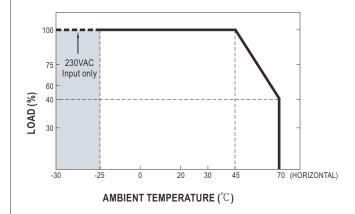
  7. The efficiency level is measured at △: 230VAC/Y: 400VAC input. The efficiency level is measured at output voltage 115V(115V model)/230V(230V model)/ 380V(380V model).
- 8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed 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 https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 9. 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).
- 10. An unstable O/P voltage is expected in the first 300ms after power on. A minimum load of 5% is suggested if fast load change is required at power on phase.
- Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



#### ■ Block Diagram PFC fosc: 65KHz PWM fosc: 85KHz RECTIFIERS RECTIFIERS EMI POWER -> +V & PFC FILTER SWITCHING -O -V FILTER DETECTION CIRCUIT ww 0.T.P. PFC FG O CONTROL CURRENT CONTROL LIMIT O.V.P. -o cs → PV → PC → Remote ON/OFF → Completed of the property o ISOLATOR & RELAY RECTIFIERS AUX POWER(+12V/0.1A) Only for remote ON-OFF control & FILTER POWER FAN

#### ■ DERATING CURVE

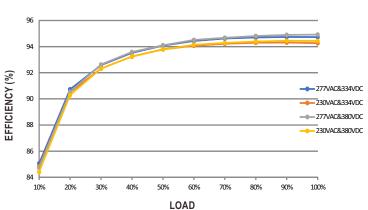




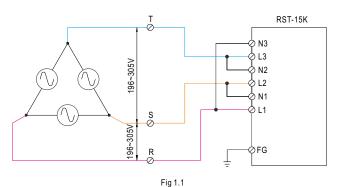
#### **■ STATIC CHARACTERISTICS**

#### 100 90 80 LOAD (%) 70 60 50 196 210 220 230 240 250 260 270 280 290 340 364 380 400 416 433 450 468 485 INPUT VOLTAGE (V) 60Hz

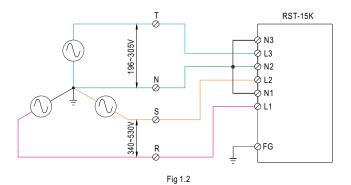
# ■ EFFICIENCY VS LOAD (380V MODEL)



#### **■** AC Power Connection



◎3 ψ 4-wire / Y 340~530VAC



■ 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.

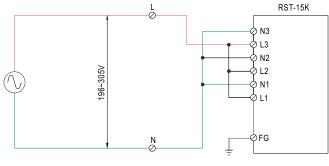
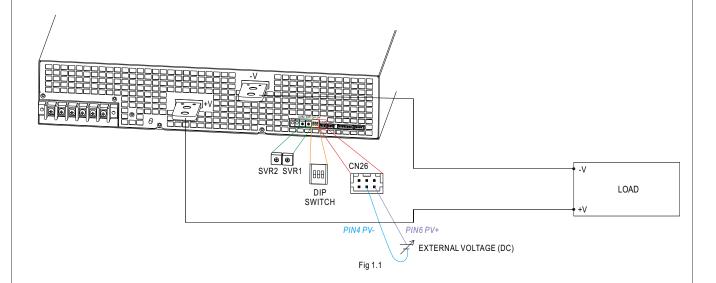


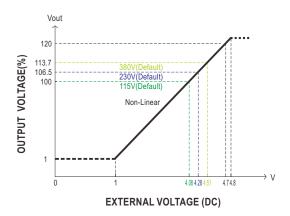
Fig 1.3



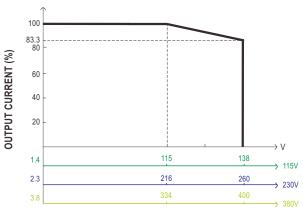
#### ■ Function Manual

- 1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)
- (1)Default by potentiometer (SVR)
  - (a) Have the DIP switch position-3 set as
  - (b)Output voltage can be trimmed by SVR. (SVR1: fine-tuning; SVR2: wide adjustment)
- (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 100% output voltage is 115/216/334V.
- When PV signal to adjust voltage under Vo<11.5V(115V model) /21.6V(230V model) / 33.4V(380V model) with dynamic load condition, the Vo overshoot & undershoot might go over rating.



#### **OUTPUT VOLTAGE**

- ① The rated current should change with the Output Voltage Programming accordingly.
- Maximum output current is Based on rated power wattage.

Fig 1.2



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

- (1)Default Overload Protection(OLP) 100~107% of rated current
  - (a) Have the DIP switch position-2 set as
  - (b)Output current is set default value.
- (2)by Constant Current Level Programming
  (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.

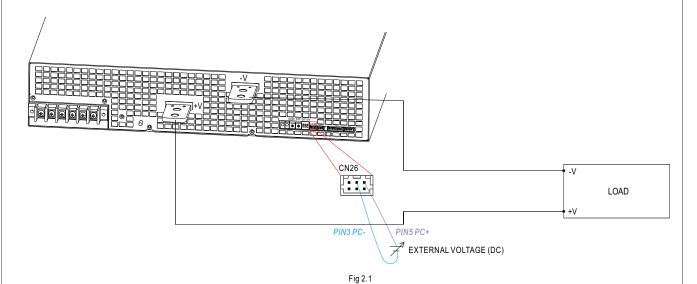


Fig 2.2

- Output will shut down after O/P voltage is below < 80% of Vset for 6 sec, re-power on to recover.
- The 100% output current is Maximum current.

#### 3. Select Overload Protection (OLP) Mode

(1)Default Continuous Constant Current mode

Have the DIPswitch position-1 set as on 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 present the output is overloaded or short-circuited.

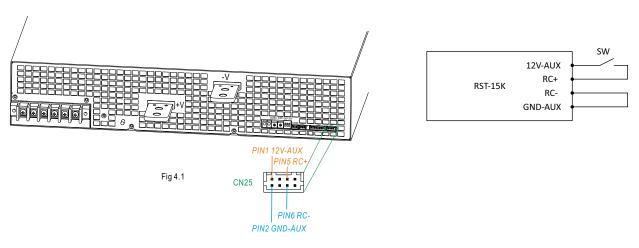


#### 4.Remote ON-OFF Control

※ 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

- ※ 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.

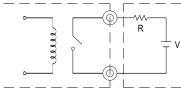


Fig 5.1

(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).

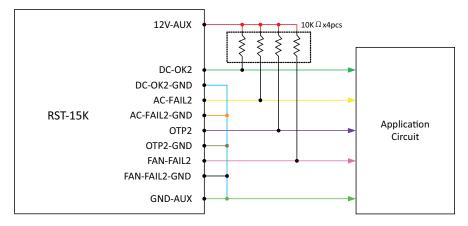
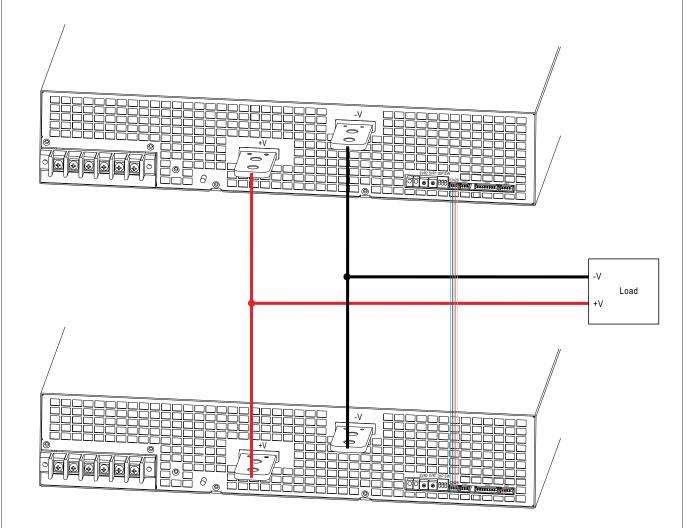


Fig 5.2

#### 6.Current Sharing

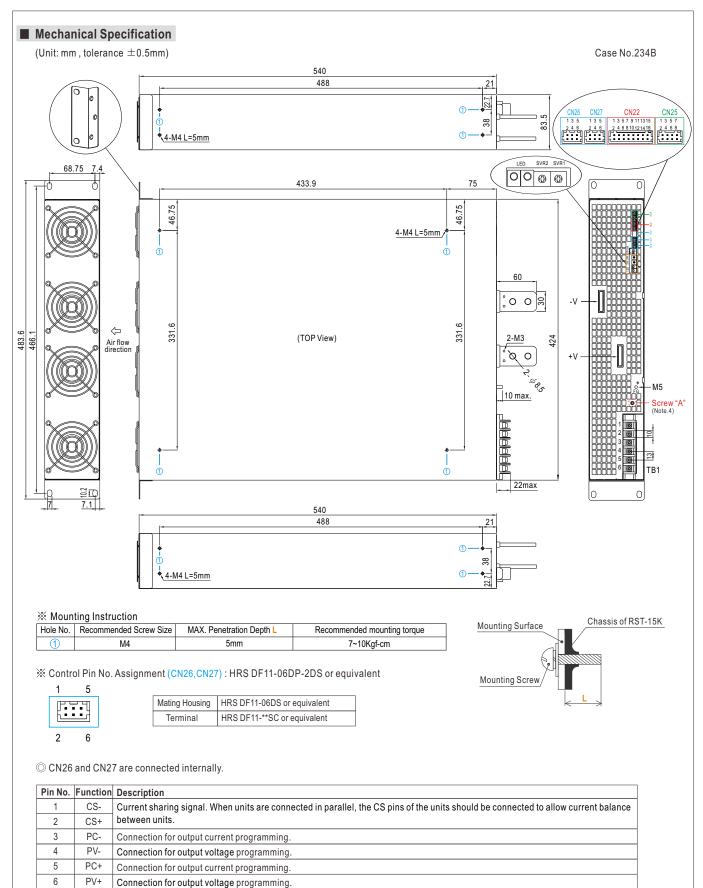
RST-15K has the built-in active current sharing function and can be connected in parallel, up to 2 units, to provide higher output power as exhibited below:

- $\frak{\%}$  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 3 $\phi$ 4W Input With High Voltage Output

# RST-15K-HV series

※ 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 maximu 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.		

X Control Pin No. Assignment (CN25): HRS DF11-08DP-2DS or equivalent

1 7



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

Pin No.	Function	Description		
1,3	Auxiliary voltage output, 11.4~12.6V, referenced to pin 2,4(GND-AUX). Only for remote on-off control & Alarm signal. 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+	The output can be turned ON-OFF in association with RC+ and RC		
6,8	RC-			



# 15KW 3 $\phi$ 4W Input With High Voltage Output

# RST-15K-HV series

#### **XLED Status Indicators**

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

#### ※AC Input Terminal Pin No. Assignment (TB1)

Pin No.	Assignment	Pin No.	Assignment	Di	agram	Maximum mounting torque
1	AC/L1	4	AC/N2		0_0_0_0_0_0	
2	AC/N1	5	AC/L3	00000		18Kgf-cm
3	AC/L2	6	AC/N3			

#### ※DIP 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)	
3	Output Voltage Programming (PV)	OFF DIP-SW PIN3:PV

### ■ Installation Manual

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



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## Hauptsitz

### Simpex Electronic AG

Binzackerstrasse 33 CH-8620 Wetzikon Telefon +41 44 931 10 10 E-Mail contact@simpex.ch Internet www.simpex.ch

### Manufaktur

#### Simpex Electronic SA

En Bas-le-Port 1 CH-2088 Cressier E-Mail contact@simpex.ch Internet www.simpex.ch