

Forced-air cooling: Blank type





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

Water cooling: L type









Front

Back





Ordering No.: PGG1WHS-684

Dimension Н 460 216 83.5(2U) mm 18.1 3.29(2U) 8.5





















Features

- 3 ψ 3-wire / \triangle or Y 340~530VAC or 3 ψ 4-wire / Y 340~530VAC
- · High efficiency up to 97%
- · Water / forced air cooling selectable
- Built-in CANBus/Optional PMBus/MODBus-RTU/RS-485 protocol
- · Output voltage and constant current level programmable
- Active current sharing up to 4 units(40KW)
- · Built-in remote ON-OFF control / Auxilary power / 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
- Electrolysis system
- · Laser processing machine
- Burn-in facility
- RF application
- EV charging station

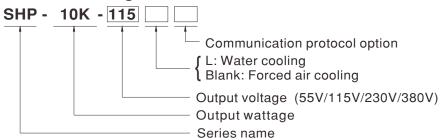
GTIN CODE

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

Description

SHP-10K-HV is a 10KW high efficiency AC/DC power supply. This series operates for the wide range three phase AC input neutral is not needed, and offers the models with DC outputs (55V/115V/230V/380V) that mostly demanded by various industries. Two types of cooling methods, forced air and water cooling, that can be working at ambient temperature up to 70°C. Moreover, SHP-10K-HV provides vast design flexibility by equipping various built-in functions such as output programming, active current sharing, remote ON-OFF control, auxiliary power, and communication protocols, that will not only satisfy marker demand, but also enhance automation purpose.

■ Model Encoding



Type	Communication Protocol	Note
Blank	CANBus	In Stock
-PM	PMBus	By request
-MOD	MODBus-RTU/RS-485	By request

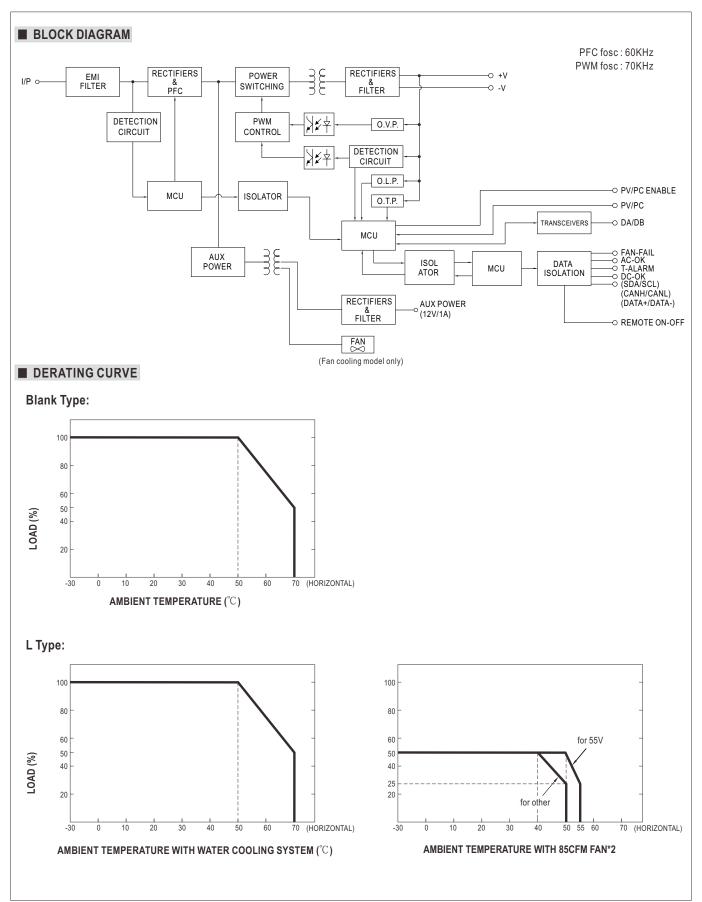


SPECIFICATION

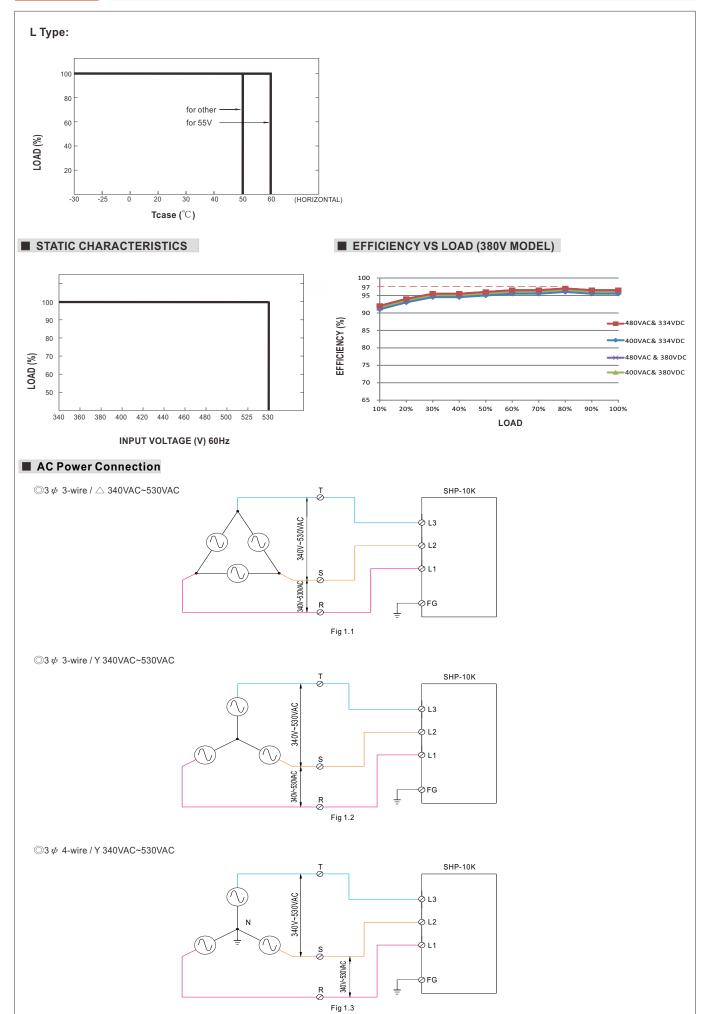
MODEL		SHP-10K-55	SHP-10K-115	SHP-10K-230	SHP-10K-380			
	DC VOLTAGE (factory default)	55V	115V	230V	380V			
	CURRENT (factory default)	131A	87A	43.5A	26.3A			
	CURRENT RANGE	0 ~ 150A	0 ~ 87A	0 ~ 46.3A	0 ~ 30A			
	RATED POWER (max.)	7200W	10000W	10000W	10000W			
	FULL POWER VOLTAGE RANGE	48 ~ 57.6V	115 ~ 138V	216 ~ 260V	334 ~ 400V			
	RIPPLE & NOISE (max.) Note.2	0.3Vp-p	0.6Vp-p	1Vp-p	1Vp-p			
OUTPUT		39 ~ 57.6V	90 ~ 138V	170 ~ 260V	260 ~ 400V			
	VOLTAGE ADJ. RANGE	Can be adjusted via built-in potentiometer						
	VOLTAGE TOLERANCE Note.3	, ,	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	3000ms, 100ms at full load	_ ± 0.5 /0		±0.370			
	HOLD UP TIME (Typ.)	25ms / 400VAC at 75% load	20ms / 400VAC at full load					
		3ψ 3-wire or 3ψ 4-wire / $340 \sim$	53UVAC					
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	≥ 0.98/400VAC/480VAC at full l		T = = = = = = = = = = = = = = = = = = =	1			
NPUT	(317	94.5%	96%	96.5%	96.5%			
	AC CURRENT (Typ.)	11.2A/400VAC 9.5A/480VAC	15.7A/400VAC 13A/480V	AC				
	INRUSH CURRENT (Typ.)	40A/400VAC 65A/480VAC						
	LEAKAGE CURRENT	<6.5mA peak / 530VAC						
	OVER LOAD	100 ~ 105% of rated current						
	OVEREGAB	Protection type : Constant curre	nt limiting, unit will shutdown afte	er 5 sec. re-power on to	recover			
PROTECTION	OVER VOLTAGE	60.5 ~ 69.1V	145 ~ 166V	273 ~ 312V	420 ~ 480V			
	OVER VOLTAGE	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 Manual					
		Adjustment of output voltage is allowable between 50 ~ 120% of nominal output voltage. Please refer to the PV curve Function Manual						
	OUTPUT VOLTAGE PROGRAMMABLE	Adjustment of output voltage is all	owable between 50 ~ 120% of nor	ninal output voltage. Ple	ease refer to the PV curve Function Manual			
		, , , ,		<u> </u>	ease refer to the PV curve Function Manual ase refer to the PC curve Function Manual			
UNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE	, , , ,	vel is allowable between 20 ~ 100	<u> </u>				
UNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER(AUX)	Adjustment of constant current le	vel is allowable between 20 ~ 100 150mVp-p	<u> </u>				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE	Adjustment of constant current le 12V@1A tolerance ±5%, ripple	vel is allowable between 20 ~ 100 150mVp-p nual.	<u> </u>				
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT	Adjustment of constant current le 12V@1A tolerance ± 5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual.	0% of rated current. Plea	ase refer to the PC curve Function Manual			
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER(AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL	Adjustment of constant current le 12V@1A tolerance ± 5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of	0% of rated current. Plea	ase refer to the PC curve Function Manual			
FUNCTION	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER(AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP.	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating"	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of	0% of rated current. Plea	ase refer to the PC curve Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve")	0% of rated current. Plea	ase refer to the PC curve Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non-condensing	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve")	0% of rated current. Plea	ase refer to the PC curve Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non-condensing $\pm 0.03\%$ (0 $\sim 50^{\circ}\mathrm{C}$)	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing	0% of rated current. Plea	ase refer to the PC curve Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$ (0 $\sim 50^{\circ}\mathrm{C}$) $-500\mathrm{Hz}$, $200\mathrm{Hz}$, $200H$	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes	0% of rated current. Please	ase refer to the PC curve Function Manual refer to the Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur- $30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non- $\pm 0.03\%/^{\circ}\mathrm{C}$ (0 $\sim 50^{\circ}\mathrm{C}$) $10 \sim 500$ Hz, 2G 10 min./1cycle, 6UL62368-1, CAN/CSA C22.2 No	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. in on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62368	0% of rated current. Please	ase refer to the PC curve Function Manual refer to the Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non-characteristics (0 $\sim 500\%$) $10 \sim 500$ Hz, 2G 10 min./1cycle, 6UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2KV	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes 0. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC	0% of rated current. Please	ase refer to the PC curve Function Manual refer to the Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\text{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH non-characteristic $\pm 0.03\%$ /°C ($0 \sim 50^{\circ}\text{C}$) $10 \sim 500$ Hz, 2G 10 min./1cycle, 6UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2KV	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. in on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC Ohms / 500VDC / 25°C / 70% RH	0% of rated current. Please	refer to the PC curve Function Manual refer to the Function Manual			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\text{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH non-c $\pm 0.03\%$ /°C (0 $\sim 50^{\circ}\text{C}$) $10 \sim 500$ Hz, 2G 10 min./1cycle, 6UL62368-1, CAN/CSA C22.2 No $1/P$ -O/P:3.75KVAC $1/P$ -FG:2KV $1/P$ -O/P, $1/P$ -FG, O/P-FG:100M CParameter	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC Ohms / 500VDC / 25°C / 70% RH Standard	of rated current. Please f = 3.5 ~ 5.5V. Please g-1, EAC TP TC 004 ap	refer to the PC curve Function Manual refer to the Function Manual proved Test Level / Note			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current let $12V@1A$ tolerance $\pm 5\%$, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur $-30 \sim +70^{\circ}\text{C}$ (Refer to "Derating $20 \sim 90\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH non-c $\pm 0.03\%/^{\circ}\text{C}$ (0 $\sim 50^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, $2G$ $10\text{min./1}\text{cycle}$, 6 UL62368-1, CAN/CSA C22.2 No $1/P$ -O/P:3.75KVAC $1/P$ -FG:2K' $1/P$ -O/P, $1/P$ -FG, O/P-FG:100M C Parameter Conducted	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC Ohms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap	refer to the PC curve Function Manual refer to the Function Manual proved Test Level / Note Class A			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4	Adjustment of constant current let 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-t±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 6U62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2K' I/P-O/P, I/P-FG, O/P-FG:100M CParameter Conducted Radiated	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC Ohms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP BS EN/EN55032 (CISP	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) R32) / EN55011 (CISPR11)	proved Test Level / Note Class A Class A			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current let 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ct ±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 6UL62368-1, CAN/CSA C22.2 Not I/P-O/P:3.75KVAC I/P-FG:2K' I/P-O/P, I/P-FG, O/P-FG:100M CParameter Conducted Radiated Harmonic Current	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC chms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP) BS EN/EN61000-3-	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) R32) / EN55011 (CISPR11)	proved Test Level / Note Class A			
	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ce to 10 ~ 500Hz, 2G 10min./1cycle, 60 UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2K' I/P-O/P, I/P-FG, O/P-FG:100M CParameter Conducted Radiated Harmonic Current Voltage Flicker	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC chms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP) BS EN/EN61000-3- BS EN/EN61000-3-	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) R32) / EN55011 (CISPR11)	proved Test Level / Note Class A Class A			
ENVIRONMENT	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ce to 10 ~ 500Hz, 2G 10min./1cycle, 60 UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2KVI/P-O/P, I/P-FG, O/P-FG:100M CParameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN61204-3, EN6100	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC chms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP) BS EN/EN61000-3- BS EN/EN61000-3- 0-6-2	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) R32) / EN55011 (CISPR11)	proved Test Level / Note Class A Class A			
ENVIRONMENT	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ce to 10 ~ 500Hz, 2G 10min./1cycle, 60 UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2K' I/P-O/P, I/P-FG, O/P-FG:100M CParameter Conducted Radiated Harmonic Current Voltage Flicker	vel is allowable between 20 ~ 100 150mVp-p nual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes b. 62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC chms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP) BS EN/EN61000-3- BS EN/EN61000-3-	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) R32) / EN55011 (CISPR11)	proved Test Level / Note Class A			
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NVIRONMENT SAFETY &	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ce to 10 ~ 500Hz, 2G 10min./1cycle, 60 UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2KVI/P-O/P, I/P-FG, O/P-FG:100M CP arameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN61204-3, EN6100 Parameter	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing 60min. each along X, Y, Z axes 0.62368-1, TUV BS EN/EN62360 VAC O/P-FG:1.25KVAC 0hms / 500VDC / 25°C / 70% RH Standard BS EN/EN55032 (CISP) BS EN/EN55032 (CISP) BS EN/EN61000-3- 0-6-2 Standard	0% of rated current. Please f = 3.5 ~ 5.5V. Please 3-1, EAC TP TC 004 ap R32) / EN55011 (CISPR11) 2 3	proved Test Level / Note Class A Test Level / Note			
NVIRONMENT SAFETY &	CONSTANT CURRENT LEVEL PROGRAMMABLE AUXILIARY POWER (AUX) REMOTE ON-OFF CONTROL ALARM SIGNAL OUTPUT DC-OK SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE Note.4 ISOLATION RESISTANCE Note.4 EMC EMISSION	Adjustment of constant current le 12V@1A tolerance ±5%, ripple Please refer to the Function Mar AC-OK, DC-OK, Fan Fail. Pleas The TTL signal output, PSU tur -30 ~ +70°C (Refer to "Derating 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH non-ce ±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 UL62368-1, CAN/CSA C22.2 No I/P-O/P:3.75KVAC I/P-FG:2K' I/P-O/P, I/P-FG, O/P-FG:100M CE Parameter Conducted Radiated Harmonic Current Voltage Flicker EN55024, EN61204-3, EN6100 Parameter ESD	vel is allowable between 20 ~ 100 150mVp-p hual. e refer to the Function Manual. n on = -0.5 ~ 0.5V; PSU turn of Curve") condensing cond	math display the state of the s	proved Test Level / Note Class A Class A Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact			
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- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- Tolerance includes set up tolerance, line regulation and load regulation.
 During withstand voltage and isolation resistance testing, the screw "A" shall be temporarily removed, and shall be installed back after the testing.
 Derating may be needed under low input voltages. Please check the derating curve for more details.
- 6. The efficiency is measured at 480VAC input.
- 7. 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)
 8. 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).
 9. If use PV signal to adjust Vo, under certain operations conditions, ripple noise of Vo might slightly go over rating defined in this specification.
- 10. Under light load condition, output voltage ripple will exceed specification. The behavior can be minimized by increasing the load. ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



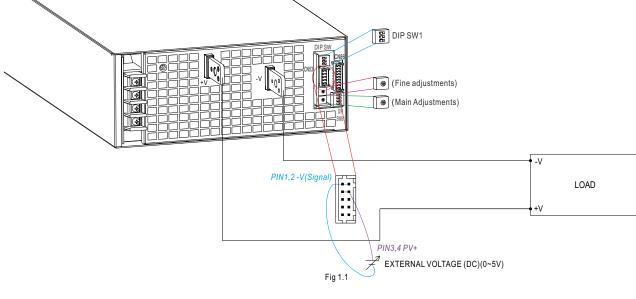


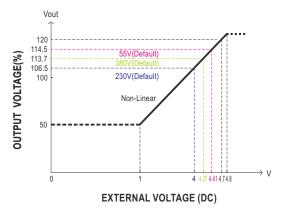




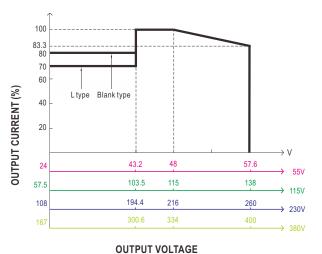


■ Function Manual 1.Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim) (1)Default by potentiometer (SVR) (a) Have the DIP switch position-3 set as (b)Output voltage can be trimmed by SVR. (2)By Output Voltage Programming (a) Have the DIP switch position-3 set as OFF (b) The output voltage can be trimmed to 50~120% by applying EXTERNAL VOLTAGE between PV+ and PV- on CN53. B DIP SW1 (Fine adjustments) (Main Adjustments)





 \bigcirc The 100% output voltage is 48/115/216/334V.



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

Fig 1.2

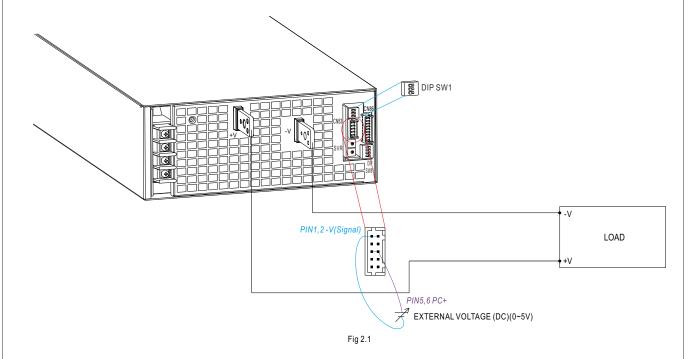


2. Constant Current Programming (or, PC / remote current programming / dynamic current trim)

- (1)Default Overload Protection(OLP) value on [
 - (a) Have the DIP switch position-2 set as
 - (b)Output current is set default value.
- (2)By Constant Current Level Programming $_{\text{op}}$ (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 CN53.

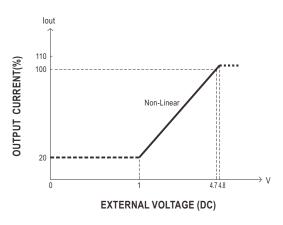


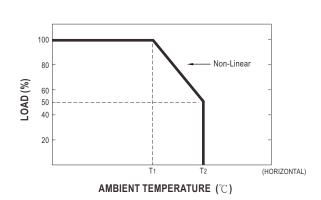
Will Under PC function at wattage < 4KW, the power supply might enter burst mode and cause output unstable, please increase the load to minimized the effect.

X Auto de-rating function covered by over temperature protection, it works either in PC mode or under control by communication protocol.

T₁(Typ.): Maximum ambient temperature of full load.

T2(Typ.): T1+5°ℂ.





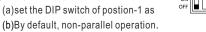
The 100% output current is 150/87/46.3/30A.

Fig 2.2



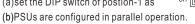
3.DA, DB signal and parallel control function

(1)Non-parallel operation



(2)Default parallel operation

(a)set the DIP switch of postion-1 as



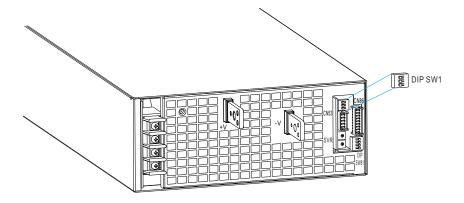


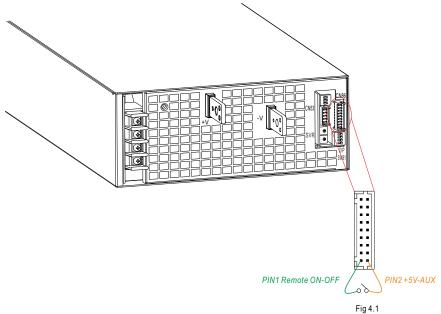
Fig 3.1

4.Remote ON-OFF Control

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

Between Remote ON-OFF(CN86 pin1) and 5V-AUX(CN86 pin2)	Output Status
Switch close (Short)	power supply ON
Switch open (Open)	power supply OFF

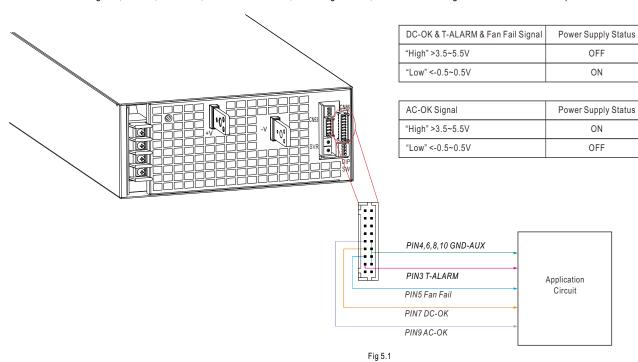
Table 4.1





5.Alarm Signal Output

💥 There are 4 alarm signals, DC-OK, T-ALARM, Fan Fail and AC-OK, in TTL signal form, on CN86. These signals are isolated from output.



% DC OK might mis-triggered when the voltage difference between PSU and the load, please minimized the unnecessary voltage difference.



6.Current Sharing

- SHP-10K 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) \times (Number of unit) \times 0.95
- ※ When the total output current is less than 5% of the total rated current, or say (5% of Rated current per unit)

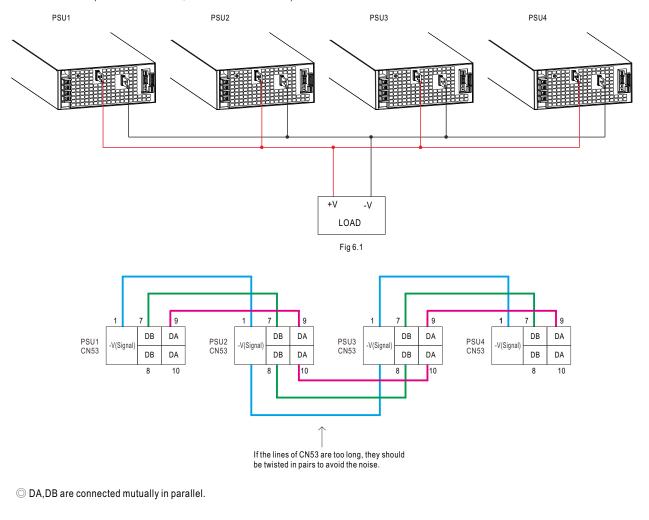
 × (Number of unit)

 the current shared among units may not be balanced.
- ※ 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%.

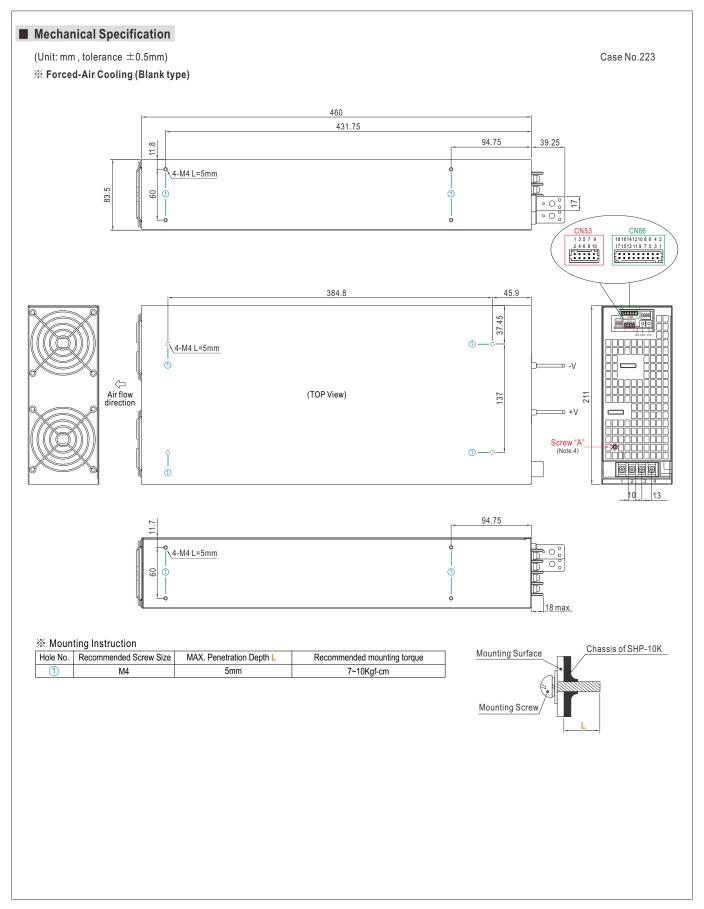
※ CN53/SW1 Function pin connection

Parallel	PSU1		PSU2		PSU3		PSU4	
Faraller	CN53	SW1 PIN1						
1 unit	Х	ON	_	_	_	_	_	_
2 unit	V	ON	V	ON	_	_	_	_
3 unit	V	ON	V	OFF	V	ON	_	_
4 unit	V	ON	V	OFF	V	OFF	V	ON

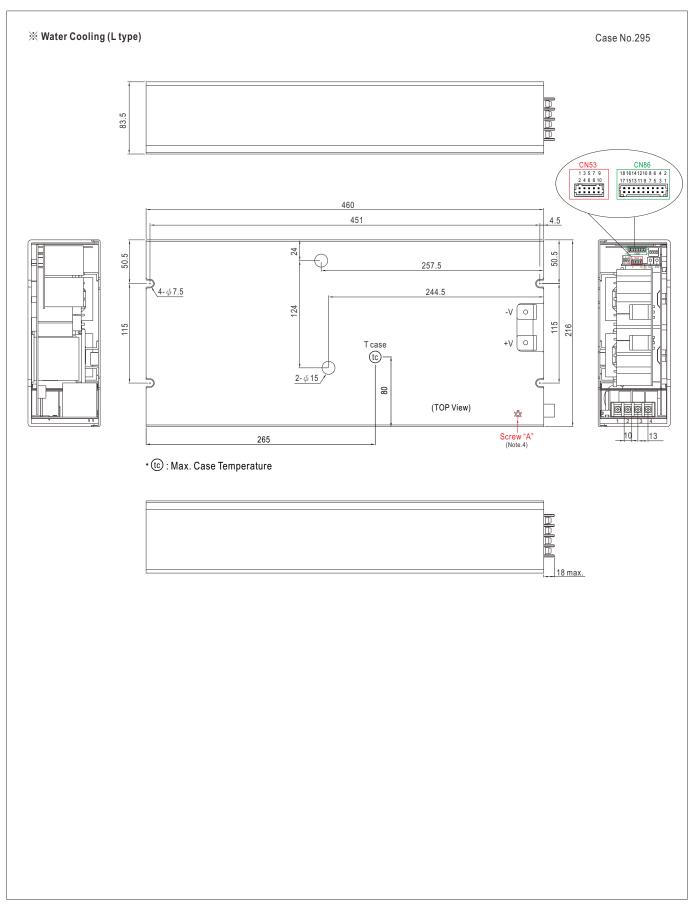
(V: CN53 connected; X: CN53 not connected.)











※ Control Pin No. Assignment (CN53): HRS DF11-10DP-2DS or equivalent



Mating Housing	HRS DF11-10DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description
1,2	-V(Signal)	Negative output voltage signal. It is for local sense and certain function reference; it cannot be connected directly to the load.
3,4	PV+	Connection for output voltage programming. (Note)
5,6	PC+	Connection for constant current level programming. (Note)
7,8	DB	Differential digital signal for parallel control. (Note)
9,10	DA	Differential digital signal for parallel control. (Note)

Note: Non-isolated signal, referenced to [-V(Signal)].

※ Control Pin No. Assignment (CN86): HRS DF11-18DP-2DS or equivalent

18	2
17	1

Mating Housing	HRS DF11-18DS or equivalent
Terminal	HRS DF11-**SC or equivalent

Pin No.	Function	Description
1	Remote	The unit can turn the output ON/OFF by dry contact between Remote ON/OFF and +5-AUX.(Note)
ON-OFF		Short $(4.5 \sim 5.5 \text{V})$: Power ON; Open $(0 \sim 0.5 \text{V})$: Power OFF; The maximum input voltage is 5.5V
2	+5V-AUX	Auxiliary voltage output, 4.5~5.5V, referenced to GND-AUX (pin 4,6,8,10,17,18) only for Remote ON/OFF used. This output is not
2	TOV-AUX	controlled by the Remote ON/OFF control.
		High $(3.5 \sim 5.5 \text{V})$: When the internal temperature exceeds the limit of temperature alarm.
3	T-ALARM	Low (-0.5 \sim 0.5V) : When the internal temperature is normal.
		The maximum sourcing current is 10mA and only for output.(Note)
4,6,8,10	GND-AUX	Auxiliary voltage output GND.
4,0,0,10	GND-AUX	The signal return is isolated from the output terminals (+V & -V).
		High(3.5~5.5V):When the fan fail.
5	Fan Fail	Low(-0.5~0.5V):When the fan works normally.
		The maximum sourcing current is 10mA and only for output.(Note)
		High(3.5 ~ 5.5V): When Vout≤ $80\% \pm 6\%$.
7	DC-OK	Low(-0.5 ~ 0.5V): When Vout \ge 80% \pm 6%.
		The maximum sourcing current is 10mA and only for output.(Note)
		High (3.5 ~ 5.5V): When AC input \ge 335 \pm 1.5% Vac, PSU works normally.
9	AC-OK	Low (-0.5 ~ 0.5V): When AC input \leq 320 \pm 1.5% Vac, PSU shut down.
		The maximum sourcing current is 10mA and only for output.(Note)
		For PMBus model: Serial Clock used in the PMBus interface.(Note)
11,12	SCL/CANL/ DATA-	For CANBus model: Data line used in CANBus interface.(Note)
	DAIA	For MODBus model: Data line used in MODBus interface.(Note)
		For PMBus model: Serial Data used in the PMBus interface.(Note)
13,14	SDA/CANH/ DATA+	For CANBus model: Data line used in CANBus interface.(Note)
	DAIA	For MODBus model: Data line used in MODBus interface.(Note)
15,16	+12V-AUX	Auxiliary voltage output, 11.4~12.6V, referenced to GND-AUX (pin17 & 18).
15,16	+12V-AUX	The maximum load current is 1A. This output is not controlled by "Remote ON-OFF".
17,18	GND-AUX	Auxiliary voltage output GND.
17,10	GIND-MUX	The signal return is isolated from the output terminals(+V & -V).

Note: Isolated signal, referenced to (GND-AUX).



10KW High Efficiency Digital Power Supply

SHP-10K-HV series

XLED Status Indicators■ The status are status and status are status are

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)

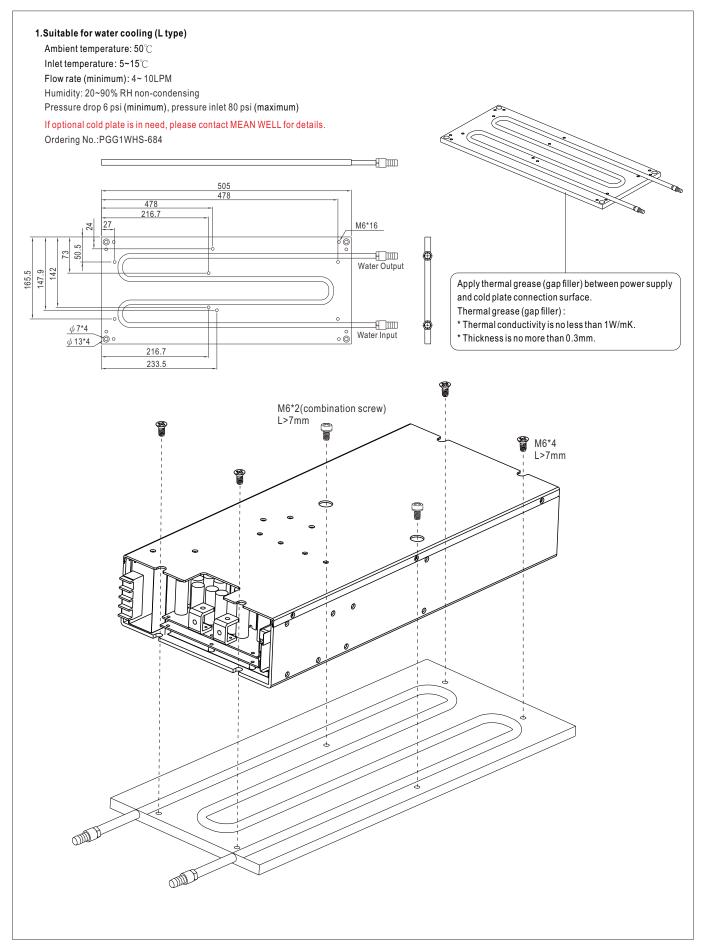
Pin No.	Assignment	Diag	gram	Maximum mounting torque
1	FG ≟			
2	AC/L1		اطاطاطا	18Kqf-cm
3	AC/L2			Tokyi-ciii
4	AC/L3			

XDIP Switch Position Assignment(DIP-SW1): Please refer to the Function Manual. €

Pin No.	Assignment	Diagram			
1	DA,DB Signal and paralled control function	1 2 3			
2	Output Current Programming (PC)	ON DIP-SW PIN2:PC			
3	Output Voltage Programming (PV)	OFF DIP-SW PIN3:PV			

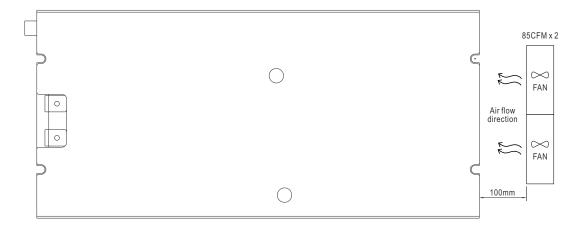
Pin N	. Function	Description
1	A0	
2	A1	PMBus/CANBus/MODBus interface address switch. (Max. 8 address)
3	A2	
4	RL	$\label{eq:connect} \textbf{Termination resistors} (\textbf{120}\Omega) \textbf{for communication.} \\ \textbf{(CANBUS \cdot MODBUS).} \textbf{ON: connect; OFF: disconnect.}$



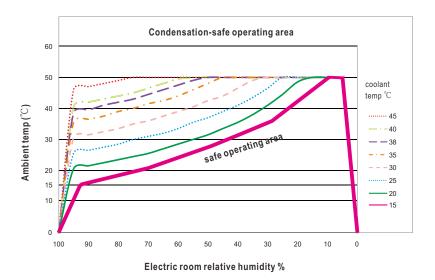




2.With 85CFM FAN x 2 (L type)



3. Condensation - Safe operating area.





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