



Наличие и актуальные цены на

MP450-CCPP#

<https://www.mean-well.ru/store/MP450-CCPP%23/>



■ Features :

- Various output configuration is selectable
 - Built in active PFC, PF>0.95
 - Universal AC input/ full range
 - Remote Control on every individual output module
 - Remote Sense on every single output module(MS-75,150,210,300,360)
 - Remote margin / V-Program(MS-210/360)
 - Built in parallel function(MS-210/300/360)
 - Protections: Short circuit / Overload / Over voltage for all output modules
 - Additional 12V/0.1A auxiliary output for remote control
 - Cooling by built-in DC fan with fan alarm function
 - 3 years warranty
- 



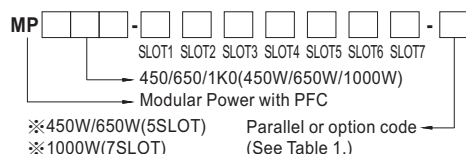
GTIN CODE

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



III 62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

Output Configuration Guide



Example: MP1K0-1C 2 E # S 2 K

SLOT1 O/P:5V@35A
SLOT2,3 O/P:12V@25A
SLOT4 Blank Slot
SLOT5 O/P:5V@10A
12V@4.2A
SLOT6,7 O/P:48V@6.3A

[illegible]

SPECIFICATION

MODEL		PFC-450		PFC-650		PFC-1000	
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF>0.95/230VAC PF>0.98/115VAC at full load					
	EFFICIENCY Note.1	82.5% typ.			84% typ.		84% typ.
	AC CURRENT	6.3A/115VAC	3.2A/230VAC	9A/115VAC	4.5A/230VAC	13.5A/115VAC	6.7A/230VAC
	INRUSH CURRENT	25A/115VAC	40A/230VAC	30A/115VAC	50A/230VAC	20A/115VAC	40A/230VAC
	LEAKAGE CURRENT	<1.5mA/240VAC					
OUTPUT	TOTAL OUTPUT POWER			450W max.		650W max.	1000W max.
PROTECTION	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
	FAN ALARM	Output shutdown when FAN is malfunction					
FUNCTION	REMOTE CONTROL	RC+/RC-: 0 ~ 0.8V or Short, Power ON		RC+/RC-: 4 ~ 12V or Open, Power OFF			
	AUXILIARY POWER(AUX)	12V@0.1A(only for Remote ON/OFF Control)					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 5)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-1, light industry level, criteria A, EAC TP TC 020					
OTHERS	MTBF	2257.3K hrs min. Telcordia SR-332 (Bellcore) ; 225.9K hrs min. 2135.5K hrs min. Telcordia SR-332 (Bellcore) ; 292K hrs min. 1793K hrs min. Telcordia SR-332 (Bellcore) ; 239.8K hrs min.		MIL-HDBK-217F (25°C) (450W) MIL-HDBK-217F (25°C) (650W) MIL-HDBK-217F (25°C) (1000W)			
	DIMENSION	254*127*63.5mm (L*W*H)		278*127*63.5mm (L*W*H)		278*177.8*63.5mm (L*W*H)	
	PACKING	1.8Kg(typ.): 6pcs / 11.8Kg / 1.25CUFT		2.16Kg(typ.): 6pcs / 14Kg / 1.34CUFT		3Kg(typ.): 6pcs /19Kg / 1.74CUFT	

SPECIFICATION

■ 1 SLOT Single output (150W) MS-150

OUTPUT (MS-150)	OUTPUT VOLTAGE CODE	MS-150A	MS-150B	MS-150C	MS-150D	MS-150E	MS-150F	MS-150G	MS-150H	MS-150I	MS-150J	MS-150K	
	DC VOLTAGE	2V	3.3V	5V	7.5V	12V	15V	18V	24V	27V	33V	48V	
	RATED CURRENT	25A	25A	25A	18A	13A	10A	8.5A	6.5A	5.8A	4.7A	3.2A	
	CURRENT RANGE	0 ~ 25A	0 ~ 25A	0 ~ 25A	0 ~ 18A	0 ~ 13A	0 ~ 10A	0 ~ 8.5A	0 ~ 6.5A	0 ~ 5.8A	0 ~ 4.7A	0 ~ 3.2A	
	PEAK LOAD Note.4	30A	30A	30A	20.7A	15A	11.5A	9.8A	7.5A	6.7A	5.4A	3.68A	
	RATED POWER	50W	82.5W	125W	135W	156W	150W	153W	156W	156.6W	155.1W	153.6W	
	RIPPLE & NOISE (max.) Note.2	50mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	1.6 ~ 2.6V	2.6 ~ 4V	4 ~ 6V	6 ~ 9V	9 ~ 13.2V	13.2 ~ 16.8V	16.8 ~ 20V	20 ~ 26.4V	25 ~ 31V	30 ~ 40V	40 ~ 53V	
	VOLTAGE TOLERANCE Note.3	± 3.0%	± 2.0%	± 2.0%	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	
	LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.3%	± 0.3%	± 0.3%	± 0.2%	± 0.2%	± 0.2%	± 0.2%	
	LOAD REGULATION	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	
SETUP, RISE, HOLD UP TIME	1500ms, 50ms, 20ms at full load												
PROTECTION	OVERLOAD	121 ~ 150% rated output power				116 ~ 150% rated output power							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	OVER VOLTAGE	2.7 ~ 4V	4.1 ~ 5V	6.1 ~ 7.5V	9.1 ~ 11.2V	13.3 ~ 18V	16.9 ~ 22V	20.1 ~ 26V	26.5 ~ 35V	31.1 ~ 39V	40.1 ~ 48V	53.1 ~ 60V	
		Protection type : Shut down o/p voltage, re-power on to recover											
FUNCTION	REMOTE INHIBIT CONTROL	RC+ / RC-: 0 ~ 0.8V or OPEN, POWER ON					RC+ / RC-: 4 ~ 12V POWER OFF						

■ 1 SLOT Single output (210W) MS-210

OUTPUT (MS-210)	OUTPUT VOLTAGE CODE	MS-210-1A	MS-210-1B	MS-210-1C	MS-210-1D	MS-210-1E	MS-210-1F	MS-210-1G	MS-210-1H	MS-210-1I	MS-210-1J	MS-210-1K	
	DC VOLTAGE	2V	3.3V	5V	7.5V	12V	15V	18V	24V	27V	33V	48V	
	RATED CURRENT	35A	35A	35A	28A	17.5A	14A	11.6A	8.75A	7.8A	6.4A	4.4A	
	CURRENT RANGE	0 ~ 35A	0 ~ 35A	0 ~ 35A	0 ~ 28A	0 ~ 17.5A	0 ~ 14A	0 ~ 11.6A	0 ~ 8.75A	0 ~ 7.8A	0 ~ 6.4A	0 ~ 4.4A	
	PEAK LOAD	Note.4	38.5A	38.5A	38.5A	32.2A	20.1A	16.1A	13.4A	10.1A	9A	7.4A	5.1A
	RATED POWER		70W	115.5W	175W	210W	210W	210W	208.8W	210W	210.6W	211.2W	211.2W
	RIPPLE & NOISE (max.)	Note.2	50mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE		1.6 ~ 2.6V	2.6 ~ 4V	4 ~ 6V	6 ~ 9V	9 ~ 13.2V	13.2 ~ 16.8V	16.8 ~ 20V	20 ~ 26.4V	25 ~ 31V	30 ~ 40V	40 ~ 53V
	VOLTAGE TOLERANCE	Note.3	± 3.0%	± 2.0%	± 2.0%	± 2.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LINE REGULATION		± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.3%	± 0.3%	± 0.3%	± 0.2%	± 0.2%	± 0.2%	± 0.2%
	LOAD REGULATION		± 2.0%	± 1.5%	± 1.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
SETUP, RISE, HOLD UP TIME		1500ms, 50ms, 20ms at full load											
PROTECTION	OVERLOAD	110 ~ 135% rated output power				116 ~ 150% rated output power							
		Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	OVER VOLTAGE	2.7 ~ 4V	4.1 ~ 5V	6.1 ~ 7.5V	9.1 ~ 11.2V	13.3 ~ 18V	16.9 ~ 22V	20.1 ~ 26V	26.5 ~ 35V	31.1 ~ 39V	40.1 ~ 48V	53.1 ~ 60V	
Protection type : Shut down o/p voltage, re-power on to recover													
FUNCTION	REMOTE INHIBIT CONTROL	RC+ / RC-: 0 ~ 0.8V or OPEN, POWER ON					RC+ / RC-: 4 ~ 12V POWER OFF						

■ 2 SLOT Single output (300W) MS-300

OUTPUT (MS-300)	OUTPUT VOLTAGE CODE	MS-300-2A	MS-300-2B	MS-300-2C	MS-300-2D	MS-300-2E	MS-300-2F	MS-300-2G	MS-300-2H	MS-300-2I	MS-300-2J	MS-300-2K
	DC VOLTAGE	2V	3.3V	5V	7.5V	12V	15V	18V	24V	27V	33V	48V
	RATED CURRENT	50A	50A	50A	40A	25A	20A	16.7A	12.5A	11.2A	9.1A	6.3A
	CURRENT RANGE	0 ~ 50A	0 ~ 50A	0 ~ 50A	0 ~ 40A	0 ~ 25A	0 ~ 20A	0 ~ 16.7A	0 ~ 12.5A	0 ~ 11.2A	0 ~ 9.1A	0 ~ 6.3A
	PEAK LOAD Note.4	57.5A	57.5A	57.5A	46A	29A	23A	19.2A	14.4A	12.9A	10.5A	7.2A
	RATED POWER	100W	165W	250W	300W	300W	300W	300.6W	300W	302.4W	300.3W	302.4W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	1.6 ~ 2.6V	2.6 ~ 4V	4 ~ 6V	6 ~ 9V	9 ~ 13.2V	13.2 ~ 16.8V	16.8 ~ 20V	20 ~ 26.4V	25 ~ 31V	30 ~ 40V	40 ~ 53V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD UP TIME		1500ms, 50ms, 20ms at full load										
PROTECTION	OVERLOAD	116 ~ 150% rated output power										
		Protection type : Constant current limiting, recovers automatically after fault condition is removed										
	OVER VOLTAGE	3 ~ 4V	4.1 ~ 5V	6.1 ~ 7.5V	9.1 ~ 11.2V	13.3 ~ 18V	16.9 ~ 22V	20.1 ~ 26V	26.5 ~ 35V	31.1 ~ 39V	40.1 ~ 48V	53.1 ~ 60V
		Protection type : Shut down o/p voltage, re-power on to recover										
FUNCTION	REMOTE INHIBIT CONTROL	RC+/RC-: 0 ~ 0.8V or OPEN, POWER ON RC+/RC-: 4 ~ 12V POWER OFF										

■ 2 SLOT Single output (360W) MS-360

OUTPUT (MS-360)	OUTPUT VOLTAGE CODE	MS-360-3A	MS-360-3B	MS-360-3C	MS-360-3D	MS-360-3E	MS-360-3F	MS-360-3G	MS-360-3H	MS-360-3I	MS-360-3J	MS-360-3K
	DC VOLTAGE	2V	3.3V	5V	7.5V	12V	15V	18V	24V	27V	33V	48V
	RATED CURRENT	60A	60A	60A	48A	30A	24A	20A	15A	13.4A	11A	7.5A
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 48A	0 ~ 30A	0 ~ 24A	0 ~ 20A	0 ~ 15A	0 ~ 13.4A	0 ~ 11A	0 ~ 7.5A
	PEAK LOAD Note.4	69A	69A	69A	55.2A	34.5A	27.6A	23A	17.3A	15.5A	12.7A	8.7A
	RATED POWER	120W	198W	300W	360W	360W	360W	360W	360W	361.8W	363W	360W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	100mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	1.6 ~ 2.6V	2.6 ~ 4V	4 ~ 6V	6 ~ 9V	9 ~ 13.2V	13.2 ~ 16.8V	16.8 ~ 20V	20 ~ 26.4V	25 ~ 31V	30 ~ 40V	40 ~ 53V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE, HOLD UP TIME		1500ms, 50ms, 20ms at full load										
PROTECTION	OVERLOAD	116 ~ 150% rated output power										
		Protection type : Constant current limiting, recovers automatically after fault condition is removed										
	OVER VOLTAGE	3 ~ 4V	4.1 ~ 5V	6.1 ~ 7.5V	9.1 ~ 11.2V	13.3 ~ 18V	16.9 ~ 22V	20.1 ~ 26V	26.5 ~ 35V	31.1 ~ 39V	40.1 ~ 48V	53.1 ~ 60V
		Protection type : Shut down o/p voltage, re-power on to recover										
FUNCTION	REMOTE INHIBIT CONTROL	RC+/RC-: 0 ~ 0.8V or OPEN, POWER ON RC+/RC-: 4 ~ 12V POWER OFF										

SPECIFICATION

1 SLOT Single output (75W) MS-75

OUTPUT (MS-75)	OUTPUT VOLTAGE CODE	MS-75L	MS-75M	MS-75N	MS-75O	MS-75P	MS-75Q
	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	15A	15A	6.3A	5A	3.2A	1.6A
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 6.3A	0 ~ 5A	0 ~ 3.2A	0 ~ 1.6A
	PEAK LOAD Note.4	17.3A	17.3A	7.3A	5.8A	3.7A	1.8A
	RATED POWER	49.5W	75W	75.6W	75W	76.8W	76.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	150mVp-p	150mVp-p	150mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	2.6 ~ 4V	4 ~ 6V	9 ~ 13.2V	13.2 ~ 16.8V	20 ~ 26.4V	40 ~ 53V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
PROTECTION	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE, HOLD UP TIME	1500ms, 50ms, 20ms at full load					
	OVERLOAD	116 ~ 150% rated output power					
FUNCTION	OVER VOLTAGE	4.1 ~ 5V	6.1 ~ 7.5V	13.3 ~ 18V	16.9 ~ 22V	26.5 ~ 35V	53.1 ~ 60V
	REMOTE INHIBIT CONTROL	RC+/RC-: 0 ~ 0.8V or OPEN, POWER ON RC+/RC-: 4 ~ 12V POWER OFF					

1 SLOT Isolated Dual output (100W) MD-100

OUTPUT (MD-100)	OUTPUT VOLTAGE CODE	MD-100R		MD-100S		MD-100T		MD-100U		MD-100V		MD-100W		MD-100X	
	DC VOLTAGE	5V	5V	5V	12V	5V	15V	24V	5V	24V	12V	12V	12V	15V	15V
	RATED CURRENT	10A	8A	10A	4.2A	10A	3.4A	2.5A	8A	2.5A	3.4A	5A	3.4A	4A	2.7A
	CURRENT RANGE	2 ~ 10A	0 ~ 8A	2 ~ 10A	0 ~ 5.8A	2 ~ 10A	0 ~ 4.7A	0.5 ~ 3A	0 ~ 10A	0.6 ~ 3A	0 ~ 4.7A	1 ~ 5A	0 ~ 5.8A	1 ~ 4.7A	0 ~ 4.7A
	RATED POWER Note.6	90W		100.4W		101W		100W		100.8W		100.8W		100.5W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	200mVp-p	100mVp-p	240mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	4.75 ~ 5.5V	4.75 ~ 5.5V	11.4 ~ 13.2V	4.75 ~ 5.5V	14.2 ~ 16.5V	22.8 ~ 26.4V	4.75 ~ 5.5V	22.8 ~ 26.4V	11.4 ~ 13.2V	11.4 ~ 13.2V	11.4 ~ 13.2V	14.2 ~ 16.5V	14.2 ~ 16.5V
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.0%	±3.0%	±2.0%	±3.0%	±2.0%	±3.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±0.5%	±1.0%	±0.5%	±1.0%
	LOAD REGULATION	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±2.0%	±1.0%	±2.0%	±1.0%	±2.0%
PROTECTION	SETUP, RISE, HOLD UP TIME	1500ms, 50ms, 20ms at full load													
	OVERLOAD	105 ~ 150% rated output power													
	OVER VOLTAGE	5.6 ~ 7.2V	5.6 ~ 7.2V	5.6 ~ 7.2V	13.3 ~ 17V	5.6 ~ 7.2V	16.6 ~ 22V	26.5 ~ 34V	5.6 ~ 7.2V	26.5 ~ 34V	13.3 ~ 17V	13.3 ~ 17V	13.3 ~ 17V	16.6 ~ 22V	16.6 ~ 22V
FUNCTION	REMOTE INHIBIT CONTROL	RC+/RC-: 0 ~ 0.8V or OPEN, POWER ON RC+/RC-: 4 ~ 12V POWER OFF													
	NOTE	1. MP450:The value changed by installing different output modules. The efficiency in specification means output modules are composed by following modules. 5V(Voltage code C)*1, 12V(Voltage code E)*1, 24V(Voltage code H)*1, 5V(Voltage code M)*1. MP650:The value changed by installing different output modules. The efficiency in specification means output modules are composed by following modules. 5V(Voltage code C)*2, 12V(Voltage code E)*1, 24V(Voltage code H)*2. MP1K0:The value changed by installing different output modules. The efficiency in specification means output modules are composed by following modules. 5V(Voltage code C)*2, 12V(Voltage code E)*2, 24V(Voltage code H)*3. The hold-up time of above combination is 20ms(typ.) 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. 35% Duty cycle maximum within every 10 seconds. Average output power should not exceed the rated power. 5. 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 720mm*360mm 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) 6. If the output voltage adjust to higher level, the rated current should be derated to meet the total rated power for both outputs(For MD-100 only). 7.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													

Table 1. Parallel code(For MS-210、MS-300、MS-360 only)

Model	Code	SLOT1	SLOT2	SLOT3	SLOT4	SLOT5	SLOT6	SLOT7
MS-300/360	X						-----	-----
	1		○		○		-----	-----
	2			○		○	-----	-----
	3				○		○	
	4					○		○
	5	○		○		○		
MS-210	7	○	○					
	8	○	○	○	○			
	9	○	○	○	○			

※ Code X,1,2,7,8,9 for MP450, MP650

※ Code X,1,2,3,4,5,6,7,8,9 for MP1K0

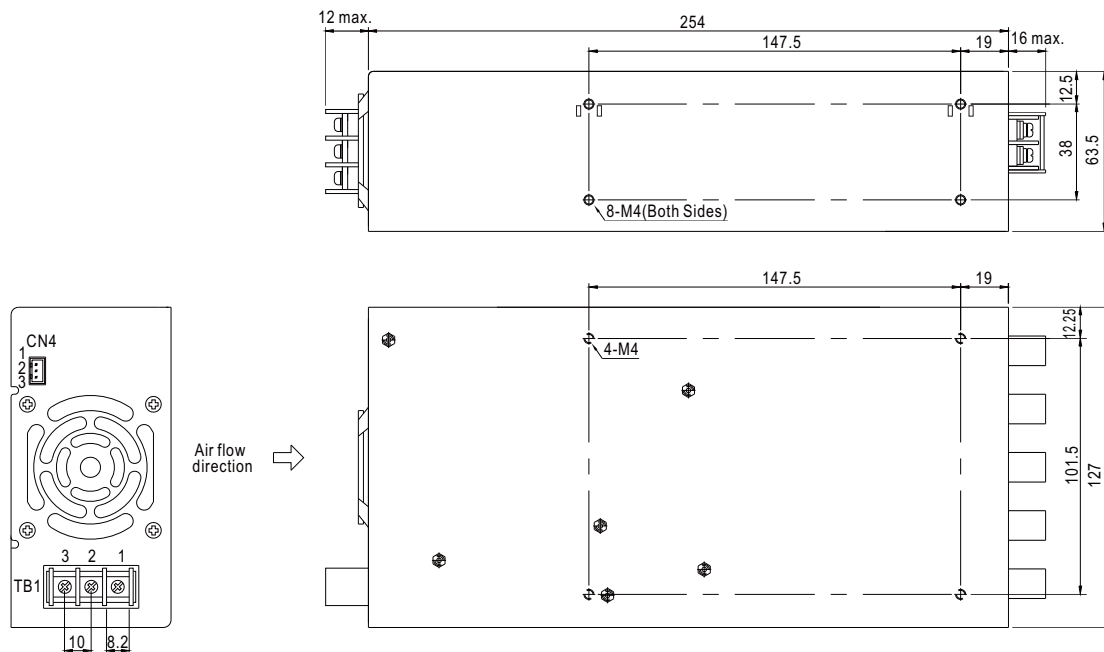
※ Maximum number of units for parallel function : 5 for MS-210, 3 for MS-300/360

■ Mechanical Specification

(Unit: mm , tolerance $\pm 0.5\text{mm}$)

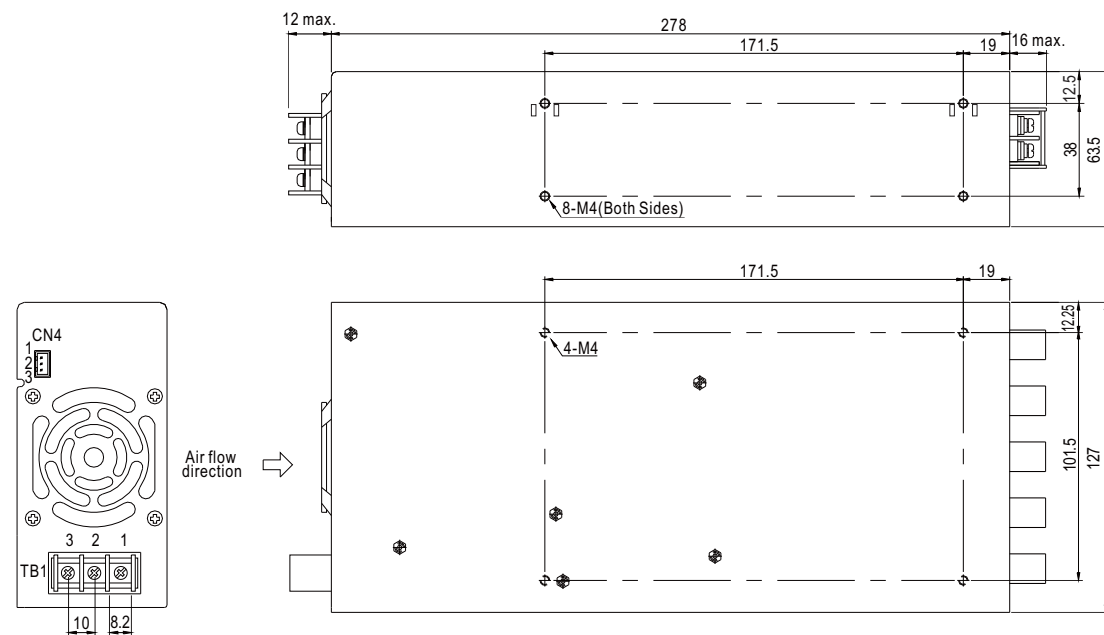
Case No.939A

MP450



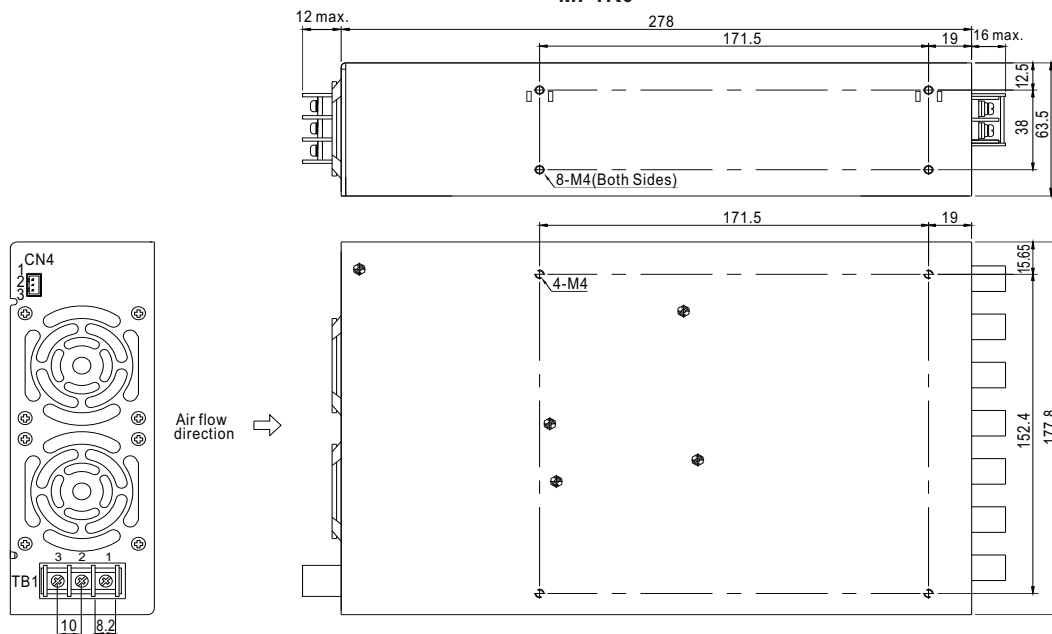
Case No.935A

MP650



Case No.940A

MP1K0



TB1(PFC-450/650/1K0)

Pin No.	Assignment	Screw Size	Maximum mounting torque
1	AC/L	M3.5	18Kgf-cm
2	AC/N		
3	FG $\frac{1}{2}$		

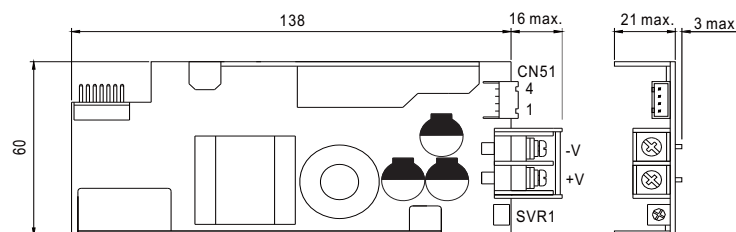
CN4(PFC-450/650/1K0) : JST B3B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+RC: +Remote ON/OFF	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-RC: -Remote ON/OFF		
3	VCC: 12V/0.1A auxiliary output		

■ Mechanism of Output Modules

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Unit:mm

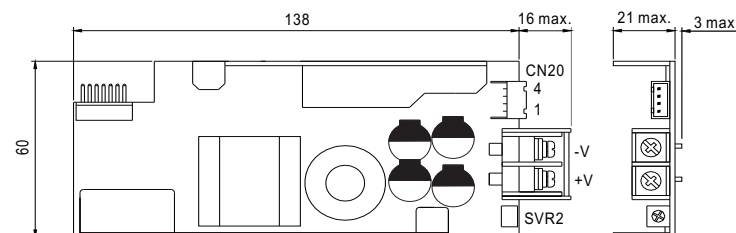


Output Connector(CN51) : JST B4B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+S: +Remote sense	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-S: -Remote sense		
3	+RC: +Remote ON/OFF		
4	-RC: -Remote ON/OFF		

Assignment	Screw Size	Maximum mounting torque
+V,-V	M4	18Kqf-cm

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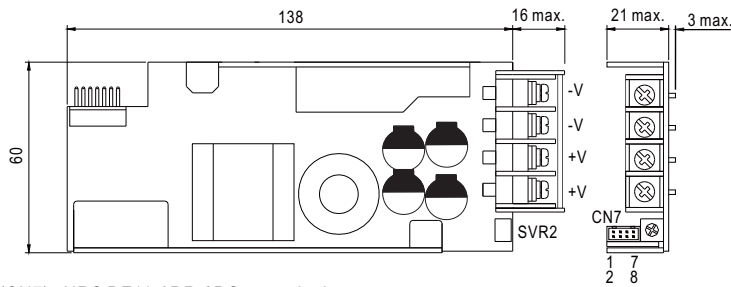
Output Connector(CN20) : JST B4B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+S: +Remote sense	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-S: -Remote sense		
3	+RC: +Remote ON/OFF		
4	-RC: -Remote ON/OFF		

Assignment	Screw Size	Maximum mounting torque
+V,-V	M4	18Kgf-cm

Mechanism of Output Modules

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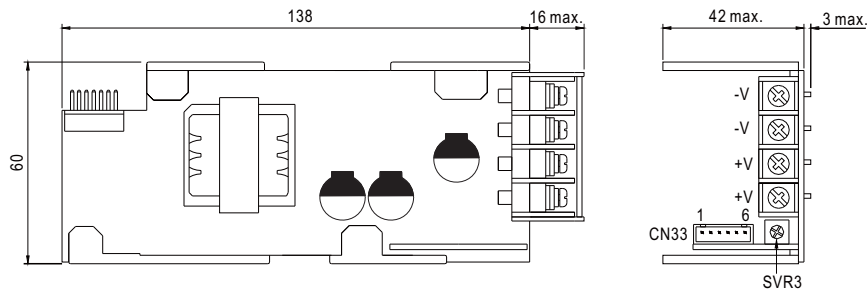
Output Connector(CN7) : HRS DF11-8DP-2DS or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	+S: +Remote sense	5	CS: Current sharing	HRS DF11-8DS or equivalent	DRS DF11-**SC or equivalent
2	-S: -Remote sense	6	G: GND		
3	+RC: +Remote ON/OFF	7	ML: Remote margin low control		
4	-RC: -Remote ON/OFF	8	M: Remote margin control		

Assignment	Screw Size	Maximum mounting torque
+V,-V	M3.5	12Kgf-cm

NOTE: 1. The voltage difference among each output should be minimized that less than 2% is required.
2. The total output current must not exceed the value determined by the following equation.
(Output current at parallel operation) = (The rated current per unit) × (Number of unit) × 0.9

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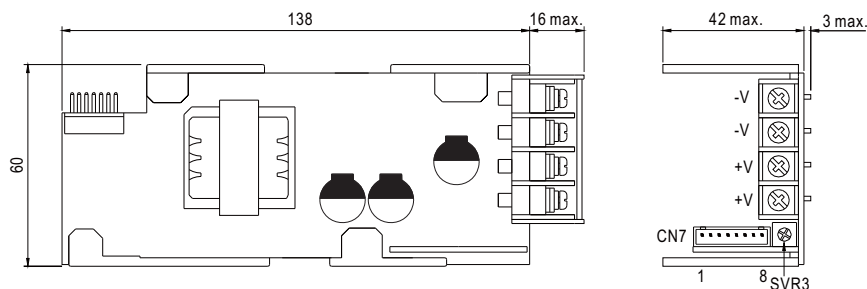
Output Connector(CN33) : JST B6B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+S: +Remote sense	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-S: -Remote sense		
3	+RC: +Remote ON/OFF		
4	-RC: -Remote ON/OFF		
5	CS: Current sharing		
6	G: GND		

Assignment	Screw Size	Maximum mounting torque
+V,-V	M4	18Kgf-cm

NOTE: 1. The voltage difference among each output should be minimized that less than 2% is required.
2. The total output current must not exceed the value determined by the following equation.
(Output current at parallel operation) = (The rated current per unit) × (Number of unit) × 0.9

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Output Connector(CN7) : JST B8B-XH or equivalent

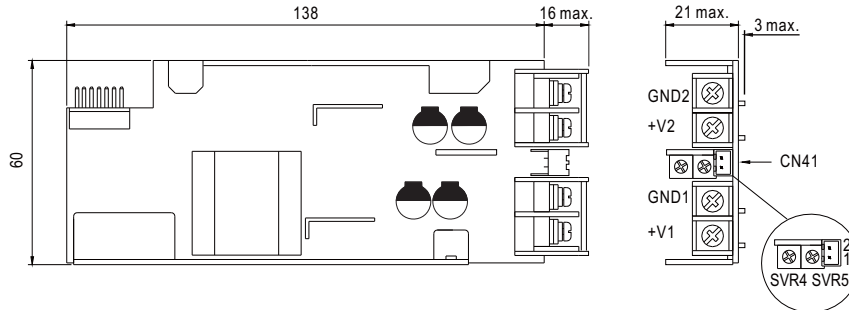
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	+S: +Remote sense	5	CS: Current sharing	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-S: -Remote sense	6	G: GND		
3	+RC: +Remote ON/OFF	7	ML: Remote margin low control		
4	-RC: -Remote ON/OFF	8	M: Remote margin control		

Assignment	Screw Size	Maximum mounting torque
+V,-V	M3.5	12Kgf-cm

NOTE: 1. The voltage difference among each output should be minimized that less than 2% is required.
2. The total output current must not exceed the value determined by the following equation.
(Output current at parallel operation) = (The rated current per unit) × (Number of unit) × 0.9

Mechanism of Output Modules

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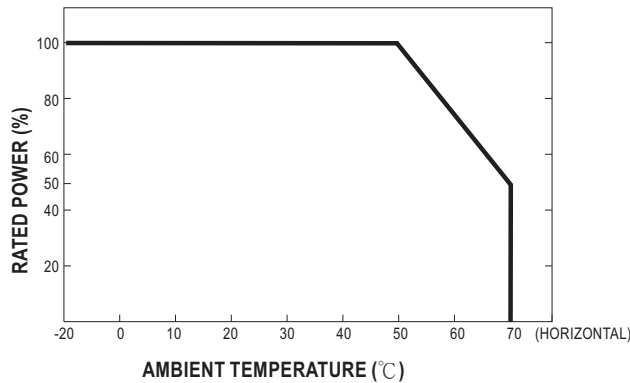
Output Connector(CN41) : JST B2B-ZR or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+RC	JST ZHR-2	JST SZH-002T-P0.5
2	-RC	or equivalent	or equivalent

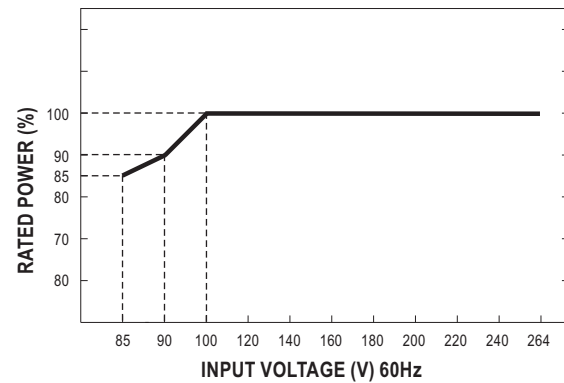
Assignment	Screw Size	Maximum mounting torque
+V,-V	M4	18Kgf-cm

NOTE: 1.Remote ON/OFF of CN4 turn ON/OFF the entire power system
2.Remote ON/OFF of CN20,CN33,CN41,CN51 turn ON/OFF the individual output module
3.SVR1~5: DC output voltage adjustment(SVR4 for CH2 of MD-100,SVR5 for CH1 of MD-100)

Derating Curve



Static Characteristics



Remote Margin / V-Program

Remote Margin / V-Program is available for MS-210 and MS-360 to fine tune the output voltage. Hereunder is the instruction, assuming no voltage adjustment is applied via the built-in potentiometer.

- (1)When the function is not required, please have pin CN7-8 (refer to Mechanism of Output Modules) open, and the output voltage will present the nominal voltage.
- (2)Connecting pin CN7-8 with CN7-6 (or CN7-7) will tune the output voltage up (if CN7-7, down) by 5% of the nominal voltage.
- (3)Applying an additional 100K Ω potentiometer across CN7-6 and CN7-7 (referring to Figure 1) will enable the adjustment in between -5% and +5% (EX: -3%, +2.5%, and etc.)

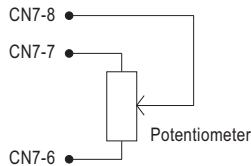


Figure 1

(Please refer to Mechanism of Output Modules)