

MP SERIES (Modular power supply)**ORDERING INFORMATION**

MP4-BODEH **-00-**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Abbreviation type name of MP series
 ② Abbreviation power of MP series
 3: MP300
 4: MP450
 6: MP650
 9: MP900

- ③ Slot 1 Output module
 ④ Slot 2 Output module
 ⑤ Slot 3 Output module
 ⑥ Slot 4 Output module
 ⑦ Slot 5 Output module
 ⑧ Slot 6 Output module
 ⑨ Parallel code
 ⑩ Option (series code)

**MP-SERIES SPECIFICATIONS** (For delivery, contact our office sales)

	MODEL	MP300	MP450	MP650	MP900
INPUT	VOLTAGE, FREQUENCY	AC100-240V (AC85~264V or DC120~370V), 50/60Hz (47~63Hz or DC)			
	CURRENT (110V/220V)	3.7A typ / 2.0A typ	5.7A typ / 3.1A typ	8.0A typ / 4.2A typ	11.0A typ / 5.7A typ
	POWER FACTOR	0.99 typ (ACIN 110V, I _p =100%) / 0.95 typ (ACIN 220V, I _p =100%)			
	EFFICIENCY (110V/220V)	74% typ / 78% typ	75% typ / 78% typ	77% typ / 80% typ	77% typ / 80% typ
	LEAKAGE CURRENT	0.5A max(ACIN 110V, I _p =100%), 0.95A max(ACIN 220V, I _p =100%)			
	INRUSH CURRENT	15A typ(ACIN 110V, I _p =100%), 30A typ(ACIN 220V, I _p =100%) at cold start.			20A typ / 40A typ
OUTPUT	NUMBER OF SLOTS	4	5	5	6
	TOTAL POWER (110V/220V) [W]	250 / 300	400 / 450	600 / 650	800 / 900 (Peak 1k)
	RISE TIME [mS]	500 Max (ACIN 100V I _p =100%)			
	HOLDING TIME [mS]	20 typ (ACIN 100V I _p =100%)			
FUNCTION	AUXILIARY POWER (AUX)	12V / 0.1A (Only used for remote ON/OFF function)			
	ALARM (PR)	FAN alarm, LINE alarm			
ELECTRICALLY ISOLATED	INPUT-OUTPUT	AC3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)			
	INPUT-CASE, FG	AC2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)			
	OUTPUT-CASE, FG	AC500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)			
ENVIRONMENT	OPERATING TEMP AND HUMID	-10~50°C: 100%, 50~60°C: 70%, 20~90% RH(Non Condensing)			
	STORAGE TEMP AND HUMID	-20~+75°C, 20~90% RH(Non Condensing)			
	VIBRATION	10~55Hz at 2G, 3 minutes period, 30 minutes along X, Y and Z axis			
	IMPACT	20G for 20ms, Once on each X, Y and Z axis			
SAFETY	SAFETY REGULATION	Complied with UL 60950, C-UL, EN60950			
	LINE CONDUCTED RF VOLTAGE	Complied with FCC Part 15, VCCI-B, CISPR22-B, EN55022-B			
	HARMONIC ATTENUATOR	Complied with IEC61000-3-2			

MD150-SERIES SPECIFICATIONS (For delivery, contact our office sales)

MODEL		N	A	B	P	D	E	F	H	R	L
VOLTAGE	[V]	2	3.3	5	7.5	12	15	18	24	34	48
OUTPUT VOLTAGE ADJUSTMENT RANGE	[V]	1.6~2.6	2.6~3.6	4.0~5.5	6.0~8.2	9.0~13.2	13.2~16.5	16.5~19.2	19.2~26.4	27.2~37.4	38.4~52.8
CURRENT	[A]	26	26	26	18	13	10	8.5	6.5	4.5	3.2
PEAK CURRENT	[A]	—	—	—	—	—	—	—	—	—	—
NUMBER OF SLOTS USED	—	1	1	1	1	1	1	1	1	1	1
LINE REGULATION	[mV]	25	25	25	40	60	75	90	130	270	240
LOAD REGULATION	[mV]	50	50	50	80	120	150	180	240	340	480
RIPPLE	[mVp-p]	50	50	50	80	120	150	180	240	340	480
RIPPLE, NOISE	[mVp-p]	100	100	100	130	170	200	230	290	390	530
TEMPERATUR DRIFT 0~+50°C	[mV]	30	50	75	120	180	225	270	360	510	720
OVER CURRENT PROTECTION	[A]	Work over 105%min of rated current or 101%min of peak current and automatically recovery									
OVER VOLTAGE PROTECTION	[V]	3.0~4.8	4.0~5.25	Work at 115~140% of rated voltage							
FUNCTION	—	Remote sensing, Remote ON/OFF, Alarm (LV)									

MD150-DW SERIES SPECIFICATIONS (For delivery, contact our office sales)

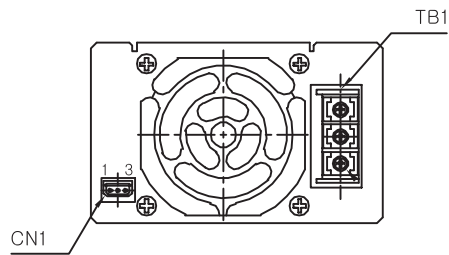
MODEL		U		V		W		X		Y	
VOLTAGE	[V]	5	-5	5	-12	5	-24	12	-12	15	-15
OUTPUT VOLTAGE ADJUSTMENT RANGE	[V]	4.5~5.5	-5.5~4.5	4.5~5.5	-13.2~10.8	4.5~5.5	-26.4~21.6	10.8~13.2	-13.2~10.8	13.5~16.5	-16.5~13.5
CURRENT	[A]	1.5~15.0	1.6~15.0	1.5~15.0	0.6~6.5	1.5~15.0	0.3~3.5	0.6~6.5	0.6~6.5	0.5~5.0	0.5~5.0
PEAK CURRENT	[A]	—	—	—	—	—	—	—	—	—	—
NUMBER OF SLOTS USED	—	1		1		1		1		1	
LINE REGULATION	[mV]	25	25	25	60	25	120	60	60	75	75
LOAD REGULATION	[mV]	50	50	50	120	50	240	120	120	150	150
RIPPLE	[mVp-p]	50	50	50	120	50	240	120	120	150	150
RIPPLE, NOISE	[mVp-p]	100	100	100	170	100	290	170	170	200	200
TEMPERATUR DRIFT 0~+50°C	[mV]	75	75	75	180	75	360	180	180	225	225
OVER CURRENT PROTECTION	[A]	Work over 105%min of rated current or 101%min of peak current and automatically recovery									
OVER VOLTAGE PROTECTION	[V]	Work at 115~140% of rated voltage									
FUNCTION	—	Alarm (LV)									

MD300-SERIES SPECIFICATIONS (For delivery, contact our office sales)

MODEL		2N	2A	2B	2P	2D	2E	2F	2H	2R	2L
VOLTAGE	[V]	2	3.3	5	7.5	12	15	18	24	34	48
OUTPUT VOLTAGE ADJUSTMENT RANGE	[V]	1.6~2.6	2.6~3.6	4.0~5.5	6.0~8.2	9.0~13.2	13.2~16.5	16.5~19.2	19.2~26.4	27.2~37.4	38.4~52.8
CURRENT	[A]	60	60	60	40	25	20	17	14	10	7
PEAK CURRENT	[A]	—	—	—	—	34	27	23	20	14	10
NUMBER OF SLOTS USED	—	2	2	2	2	2	2	2	2	2	2
LINE REGULATION	[mV]	25	25	25	40	60	75	90	120	170	240
LOAD REGULATION	[mV]	50	50	50	120	120	150	180	340	340	480
RIPPLE	[mVp-p]	80	80	80	120	120	120	120	120	120	150
RIPPLE, NOISE	[mVp-p]	120	120	120	150	150	150	150	150	150	250
TEMPERATUR DRIFT 0~+50°C	[mV]	50	50	50	90	120	150	180	240	300	480
OVER CURRENT PROTECTION	[A]	Work over 105%min of rated current or 101%min of peak current and automatically recovery									
OVER VOLTAGE PROTECTION	[V]	3.0~4.8	3.79~4.62	Work at 115~140% of rated voltage							
FUNCTION	—	Remote sensing, Remote ON/OFF, Alarm (LV)									

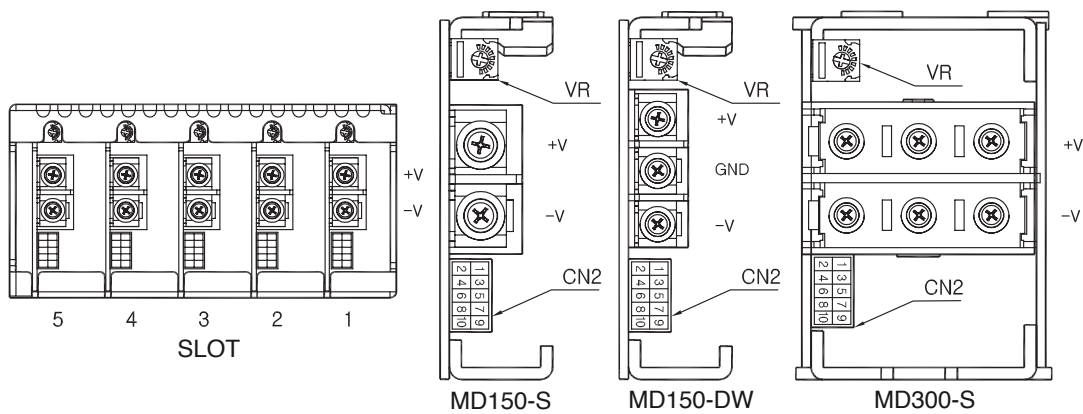
* Peak current is less than 10sec. (Duty ≤ 0.35)

■ MD150, 300-Series Side view and connector pin assignment(function)



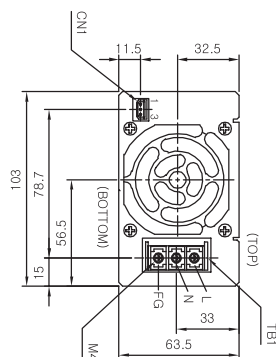
PIN No.	기능	
1	G: Ground (기능)	
2	PR: PR Alarm	
3	AUX: 보조 전원(+12V)	

CN1 CONNECTOR 사양 (Maker: MOLEX)	5268-3A(Header)	5264-03(Hosing)
	5263 (Terminal)	

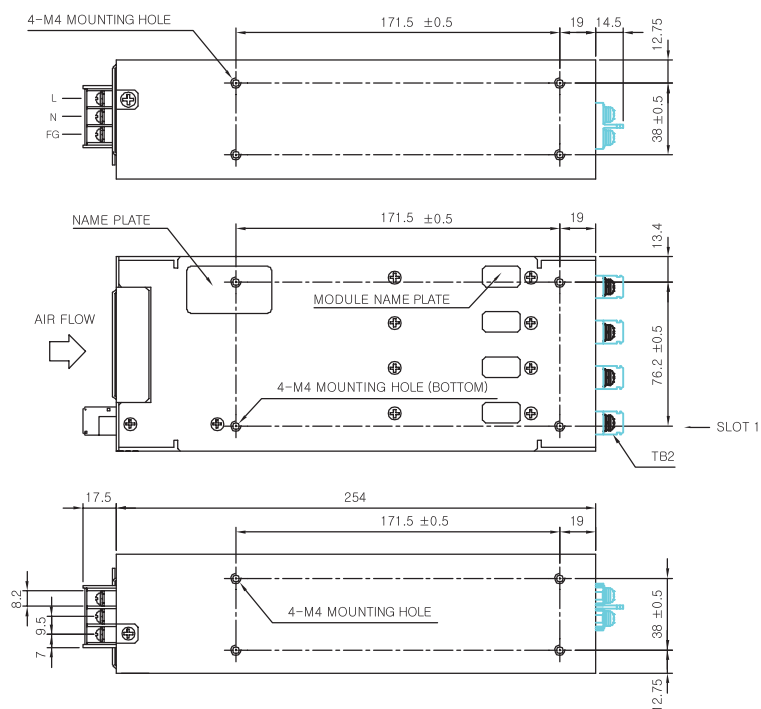


PIN No.	MD150-S, MD300-S	MD150-DW
1	RC+: Remote ON/OFF +	RC+: Remote ON/OFF +
2	RC-: Remote ON/OFF -	RC-: Remote ON/OFF -
3	N/C: N.C	N/C: N.C
4	N/C: N.C	N/C: N.C
5	LV+: LV alarm(Low Voltage)	LV+: LV alarm
6	LV-: LV alarm ground(Low Voltage)	LV-: LV alarm ground
7	+M: +Output voltage monitoring	N/C: N.C
8	+S: +Remote sensing	N/C: N.C
9	-M: -Output voltage monitoring	N/C: N.C
10	-S: -Remote sensing	N/C: N.C

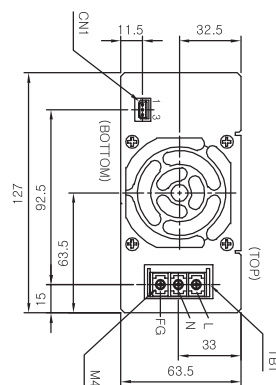
MP300 EXTERNAL VIEW



- * Weight : 1.7Kg
- * Tolerance : ± 1
- * Dimensions in mm



MP450 EXTERNAL VIEW



- * Weight : 2.1Kg
- * Tolerance : ± 1
- * Dimensions in mm

