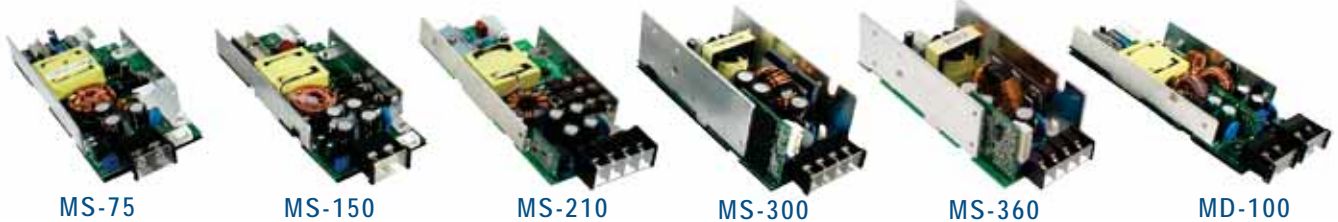




MP450 (450W, 5 SLOT)

MP650 (650W, 5 SLOT)

MP1K0 (1000W, 7 SLOT)



MS-75

MS-150

MS-210

MS-300

MS-360

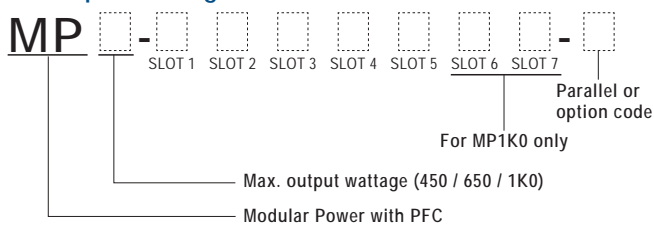
MD-100

Description

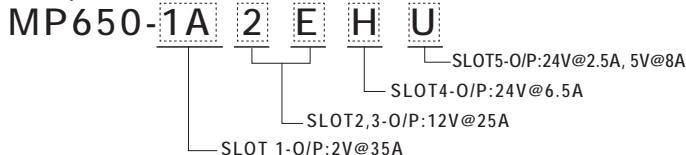
Modular series are switching power supplies with modular design that consist of two stages: front-end PFC and output modules. With the power factor correction, the line input is rectified into high DC voltage (around 390VDC) by the front-end PFC stage, and then the DC output modules will transfer the operating voltage into all kinds of DC output voltages from 1.6V-53V. Right now we offer 75W, 150W, 210W, 300W, 360W single output modules and 100W dual output modules to fulfill all kinds of applications up to 14 isolated outputs.

There are millions of combinations available for the Modular Series. Users can configure the DC outputs and get the fastest solution for their own power requirement with safety and EMC certificates. No NRE / safety application charges and long period of waiting for certificates! Providing standard products as usual, MEAN WELL offers you a revolutionary standard power solution that fulfills your custom-made request!

Output Configuration Guide



Example:



Features

- Millions of output configuration is available
- Universal AC input / Full range
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- Remote control on each output module
- Remote sense on each single output module (MS-75 / 150 / 210 / 300 / 360)
- Short circuit / Overload / Over voltage protections for all modules
- Parallel function for MS-210 (up to 5 units), MS-300/360 (up to 3 units)
- Margining control function (MS-210 / 360)
- Cooling by built-in DC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	MP450	MP650	MP1K0
AC input voltage range	85-264VAC or 120-370VDC		
Power Factor	PF >0.95 / 230VAC, PF > 0.98 / 115VAC at full load		
AC inrush current (max.)	Cold start, 40A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC
Max output voltage	450W	650W	1000W
Efficiency (typical)	82.5%	84%	84%
Over temperature protection	Output shutdown, auto-recovery		
Fan alarm	Output shutdown when fan malfunctions		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute		
Working temperature	-20~+50°C@100%, +70°C @ 50% load		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024 light industry level, criteria A		
Connection	Input side: 3P/10mm pitch terminal block & JST B3B-XH		
Dimension (LxWxH)(mm)	254x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5

MS-75: 1-SLOT single output (75W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
L	3.3V, 0-15A	17.3A	2.6-4.0V	±2%	80mV
M	5V, 0-15A	17.3A	4.0-6.0V	±2%	80mV
N	12V, 0-6.3A	7.30A	9.0-13.2V	±1%	150mV
O	15V, 0-5.0A	5.80A	13.2-16.8V	±1%	150mV
P	24V, 0-3.2A	3.70A	20.0-26.4V	±1%	150mV
Q	48V, 0-1.6A	1.80A	40.0-53.0V	±1%	250mV

MS-150: 1-SLOT single output (150W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
A	2V, 0-25A	30.0A	1.6-2.6V	±3%	50mV
B	3.3V, 0-25A	30.0A	2.6-4.0V	±2%	80mV
C	5V, 0-25A	30.0A	4.0-6.0V	±2%	80mV
D	7.5V, 0-18A	20.7A	6.0-9.0V	±2%	100mV
E	12V, 0-13A	15.0A	9.0-13.2V	±1%	150mV
F	15V, 0-10A	11.5A	13.2-16.8V	±1%	150mV
G	18V, 0-8.5A	9.80A	16.8-20.0V	±1%	150mV
H	24V, 0-6.5A	7.50A	20.0-26.4V	±1%	150mV
I	27V, 0-5.8A	6.70A	25.0-31.0V	±1%	150mV
J	33V, 0-4.7A	5.40A	30.0-40.0V	±1%	250mV
K	48V, 0-3.2A	3.68A	40.0-53.0V	±1%	250mV

MS-210: 1-SLOT parallelable single output (210W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
1A	2V, 0-35A	38.5A	1.6-2.6V	±3%	70mV
1B	3.3V, 0-35A	38.5A	2.6-4.0V	±2%	80mV
1C	5V, 0-35A	38.5A	4.0-6.0V	±2%	80mV
1D	7.5V, 0-28A	32.2A	6.0-9.0V	±2%	100mV
1E	12V, 0-17.5A	20.1A	9.0-13.2V	±1%	150mV
1F	15V, 0-14A	16.1A	13.2-16.8V	±1%	150mV
1G	18V, 0-11.6A	13.4A	16.8-20.0V	±1%	150mV
1H	24V, 0-8.75A	10.1A	20.0-26.4V	±1%	150mV
1I	27V, 0-7.8A	9.00A	25.0-31.0V	±1%	150mV
1J	33V, 0-6.4A	7.40A	30.0-40.0V	±1%	250mV
1K	48V, 0-4.4A	5.10A	40.0-53.0V	±1%	250mV

MS-300: 2-SLOT parallelable single output (300W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
2A	2V, 0-50A	57.5A	1.6-2.6V	±3%	80mV
2B	3.3V, 0-50A	57.5A	2.6-4.0V	±2%	80mV
2C	5V, 0-50A	57.5A	4.0-6.0V	±2%	80mV
2D	7.5V, 0-40A	46.0A	6.0-9.0V	±2%	100mV
2E	12V, 0-25A	29.0A	9.0-13.2V	±1%	150mV
2F	15V, 0-20A	23.0A	13.2-16.8V	±1%	150mV
2G	18V, 0-16.7A	19.2A	16.8-20.0V	±1%	150mV
2H	24V, 0-12.5A	14.4A	20.0-26.4V	±1%	150mV
2I	27V, 0-11.2A	12.9A	25.0-31.0V	±1%	200mV
2J	33V, 0-9.1A	10.5A	30.0-40.0V	±1%	250mV
2K	48V, 0-6.3A	7.2A	40.0-53.0V	±1%	300mV

MS-360: 2-SLOT parallelable single output (360W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
3A	2V, 0-60A	69.0A	1.6-2.6V	±3%	80mV
3B	3.3V, 0-60A	69.0A	2.6-4.0V	±2%	100mV
3C	5V, 0-60A	69.0A	4.0-6.0V	±2%	100mV
3D	7.5V, 0-48A	55.2A	6.0-9.0V	±2%	100mV
3E	12V, 0-30A	34.5A	9.0-13.2V	±1%	150mV
3F	15V, 0-24A	27.6A	13.2-16.8V	±1%	150mV
3G	18V, 0-20A	23.0A	16.8-20.0V	±1%	150mV
3H	24V, 0-15A	17.3A	20.0-26.4V	±1%	150mV
3I	27V, 0-13.4A	15.5A	25.0-31.0V	±1%	200mV
3J	33V, 0-11A	12.7A	30.0-40.0V	±1%	250mV
3K	48V, 0-7.5A	8.7A	40.0-53.0V	±1%	300mV

MD-100: 1-SLOT isolated dual output (100W max.)

Item Code	Output	Vdc adj.	Tol.	R&N.	Max.
R	5V, 2.0-10A	4.75-5.5V	±3%	100mV	90.0W
	5V, 0.0-8.0A	4.75-5.5V	±3%	100mV	
S	5V, 2.0-10A	4.75-5.5V	±3%	100mV	100.4W
	12V, 0.0-5.8A	11.4-13.2V	±3%	150mV	
T	5V, 2.0-10A	4.75-5.5V	±3%	100mV	101.0W
	15V, 0.0-4.7A	14.2-16.5V	±3%	150mV	
U	24V, 0.5-3.0A	22.8-26.4V	±3%	200mV	100.0W
	5V, 0.0-10A	4.75-5.5V	±3%	100mV	
V	24V, 0.6-3.0A	22.8-26.4V	±2%	240mV	100.8W
	12V, 0.0-4.7A	11.4-13.2V	±3%	120mV	
W	12V, 1.0-5.0A	11.4-13.2V	±2%	120mV	100.8W
	12V, 0.0-5.8A	11.4-13.2V	±3%	120mV	
X	15V, 1.0-4.7A	14.2-16.5V	±2%	150mV	100.5W
	15V, 0.0-4.7A	14.2-16.5V	±3%	150mV	

★Peak I: 35% duty cycle maximum within every 10 seconds. Average output power should not exceed the rated power.

Parallel Connection Accessory

FAP-001 (For MS-300, 2 units)	
FAP-002 (For MS-300, 3 units)	
FAP-003 (For MS-210, 2 units)	
FAP-004 (For MS-210, 3 units)	
FAP-005 (For MS-210, 4 units)	
FAP-006 (For MS-210, 5 units)	
FAP-007 (For MS-360, 2 units)	
FAP-008 (For MS-360, 3 units)	

Series Connection Accessory

FAS-001 (For 1-slot modules: MS-75/150, MD-100)	
FAS-002 (For 2-slot modules: MS-300)	
FAS-003 (For 1-slot modules: MS-210)	
FAS-004 (For 2-slot modules: MS-360)	

▶ Please use MP450-CNPOQ, MP650-1A2EHU, MP1K0-2C2CEKL-1.....etc. as the order code. For more detail information about technical issues, please refer to the user manual.

▶ Please refer to the user manual for more detail information about parallel connection and the parallel codes. About series connection, please contact us or your local MEAN WELL distributor for more details.