

The MPU101 series of AC/DC switching mode power supplies provide 100 Watts of continuous output power. All models meet FCC Part-18, CISPR-11 and EN55011 class B emission Limits, IEC 60601-1-2 and are designed to comply with UL/cUL, TUV T-mark and conformity assessment in CE marking. All units pass burn-in test at full load condition.



### FEATURES:

- Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single to Triple Output
- Input to Output: 2MOPP
- High ESD Immunity
- Suitable Professional Healthcare Facility
- Class I System
- 5-Year Warranty



### APPLICATIONS:

- Medical Equipment
- Patient Monitor
- Ultrasound System
- Blood chemistry Analyzer
- Medical Image

### GENERAL SPECIFICATION:

- **Short Circuit Protection:** Auto Recovery
- **Cooling:** Free Air Convection
- **Protection Classes:** Class I
- **Safety:**  
IEC 60601-1 Edition 3.1, IEC 60601-1 Edition 3.2, EN 60601-1, ANSI/AAMI ES60601-1, CSA-C22.2 NO. 60601-1



### Electrical Characteristics:

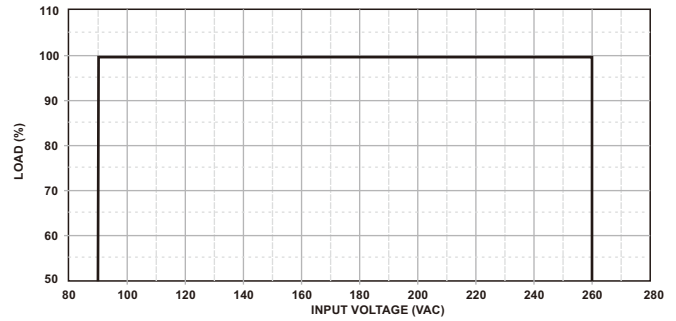
Characteristic	Condition	Min.	Typ.	Max.	Unit
Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Input Operate Voltage Range	Detail to See Fig.1	90		260	VAC
Input Frequency	Sine Wave	47		63	Hz
Power Factor Correction		0.95		1	
Output Power Range	See Rating Chart			100	W
Low Line Input Current	Full Load, Vin=100VAC		1.25		A
High Line Input Current	Full Load, Vin=240VAC		0.50		A
Low Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=100VAC			50	A
High Line Input Inrush Current	Full Load, 25°C, Cool Start, Vin=240VAC			120	A
Safety Ground Leakage Current	Vin=264VAC, Fi=63Hz		0.1	0.175	mA
Efficiency	Full Load, Vin=230VAC, Detail to See Rating Chart	See Rating Chart			
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC	0.5		1	%
Over Voltage Protection		109		132	%
Over Load Protection	Recovers Automatically After Fault Condition is Removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC	See Rating Chart			
Start-up time	Full Load, Vin=100~240VAC			2	s
Insulation Resistance	Primary to Secondary, 500VDC, 25°C/ 70% RH	50			MΩ
Temperature Coefficient	All Condition			±0.04	%/°C
Dielectric Withstanding Voltage (P-S)	Primary to Secondary, Limit Current <10mA			4000	VAC
Dielectric Withstanding Voltage (P-G)	Primary to PE, Limit Current <10mA			1500	VAC
EMC Emission	Compliance to EN55011 (CISPR11), EN60601-1-2	B			Class

### Environmental:

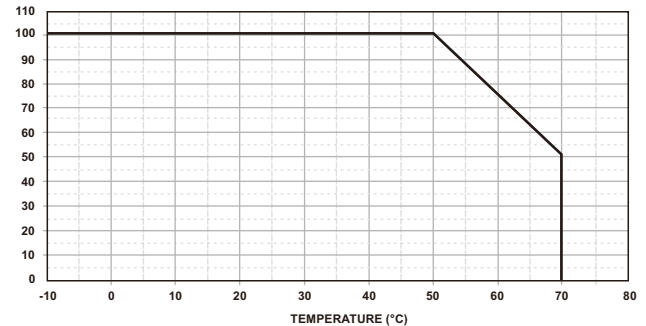
Characteristic	Condition	Min.	Typ.	Max.	Unit
Operating Temperature	Detail to See Fig.2 (Derate Linearly from 100% Load at 50°C to 50% Load at 70°C)	-10		70	°C
Storage Temperature	10 ~ 95% RH	-40		85	°C
Operating Humidity	Non-Condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	kV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	kV
Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	200k			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10 ~ 500Hz, 10min./1cycle, 60min. Each along X, Y, Z Axes			5	G
Surge Voltage	Line-Neutral			1	kV
Surge Voltage	Line-PE & Neutral-PE			2	kV

**SPECIFICATION NOTE :**

1. Output can provide up to peak load when the power supply starts up. Continuous staying in more than rated load is not allowed.
2. At factory, in 60% rated load condition, each output is checked to be within voltage accuracy.
3. Line regulation is defined by changing  $\pm 10\%$  of input voltage from nominal line at rated load.
4. Load regulation is defined by changing  $\pm 40\%$  of measured output load from 60% rated load.
5. The ripple is measured from peak to peak with a bandwidth-limit of 20MHz (Measured at the output connector with a 0.1uF ceramic capacitor and a 47uF electrolytic capacitor).
6. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
7. Efficiency is measured at rated load, and nominal line.



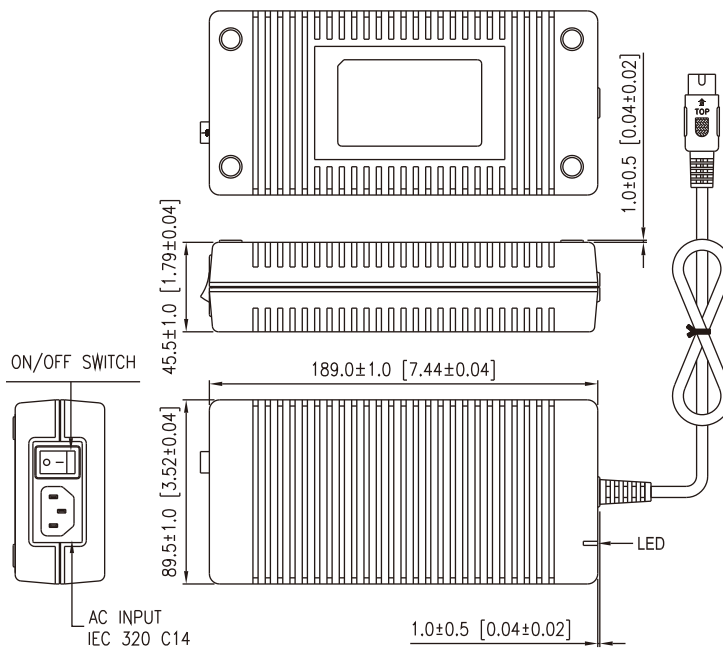
(FIG.1) INPUT VOLTAGE DERATING CURVE



(FIG.2) TEMPERATURE DERATING CURVE

NET WEIGHT: 778~800g approx.

**MECHANICAL DIMENSIONS: ( UNIT: mm [inch] )**



**Rating Chart: (Single Output)**

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Power (W)	Ripple & Noise (mVp-p)	Total Regulation (%)	Typ. Efficiency (%)	Typ. No Load Consumption (W)	Hold-Up Time (ms)	Protection Mode
	min	max	min	max							
	(VDC)	(VDC)	(A)	(A)							
MPU101-102	5.0	5.0	11.66	14.00	70	50	±5	76	3	16	Hiccup
*MPU101-103	6.0	8.0	10.00	13.33	80	60	±5	77	3	16	Hiccup
*MPU101-104	8.0	11.0	8.20	11.25	90	80	±4	82	3	16	Hiccup
MPU101-105	12.0	13.0	7.70	8.33	100	100	±3	83	3	16	Hiccup
MPU101-106	13.0	16.0	6.30	7.70	100	100	±3	83	3	16	Hiccup
MPU101-107	16.0	21.0	4.80	6.30	100	100	±3	85	3	16	Hiccup
MPU101-108	21.0	27.0	3.70	4.80	100	100	±2	86	3	16	Hiccup
*MPU101-109	27.0	33.0	3.00	3.70	100	100	±2	86	3	16	Hiccup
MPU101-110	33.0	40.0	2.50	3.00	100	100	±2	86	3	16	Hiccup

[\*] =MOQ is required. Please contact sales.

### Rating Chart: (Multi Output)

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection Mode																																																																																																																																																																																																																																																																																																																								
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	(VDC)	(A)	(A)	(W)								(mVp-p)	(%)	(%)	(W)	(ms)																																																																																																																																																																																																																																																																																																																			
*MPU101-200	Vo1	+3.3	1.0	10.0	69	66	±7	75	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+12.0	0.3	3.0		100	±5					MPU101-201	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	MPU101-202	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	MPU101-203	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+24.0	0.2	2.0	100	±7	*MPU101-204	Vo1	+3.3	1.0	10.0	55	66	±7	76	3	16	Hiccup	Vo2	+5.0	0.5	5.0	50	±5	MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-5.0	0.0	1.0	100	±5	*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+5.0	0.0	1.0	100	±5	*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6
MPU101-201	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+12.0	0.3	3.0		100	±5					MPU101-202	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	MPU101-203	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+24.0	0.2	2.0	100	±7	*MPU101-204	Vo1	+3.3	1.0	10.0	55	66	±7	76	3	16	Hiccup	Vo2	+5.0	0.5	5.0	50	±5	MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup		Vo2	+12.0	0.3	3.0		100	±5					Vo3	+12.0	0.0	1.0	100	±5	*MPU101-301	Vo1	+5.0	1.0	10.0	80		50	±5	76	4		16	Hiccup					Vo2	+12.0	0.3	3.0	100	±5	Vo3	-5.0	0.0	1.0	100	±5		*MPU101-301-1	Vo1	+5.0	1.0		10.0	80					50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup		Vo2	+12.0	0.3	3.0		100	±5					Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80		50	±5	78	4		16	Hiccup					Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5		*MPU101-303	Vo1	+5.0	1.0		10.0	80					50	±5	79	4	16	Hiccup
MPU101-202	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+15.0	0.3	3.0		100	±6					MPU101-203	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup	Vo2	+24.0	0.2	2.0	100	±7	*MPU101-204	Vo1	+3.3	1.0	10.0	55	66	±7	76	3	16	Hiccup	Vo2	+5.0	0.5	5.0	50	±5	MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5	*MPU101-301-1			Vo1			+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3		+5.0	0.0	1.0	100	±5		*MPU101-302	Vo1	+5.0	1.0	10.0	80					50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5		*MPU101-302-1	Vo1	+5.0	1.0		10.0	80					50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5		*MPU101-303	Vo1	+5.0	1.0		10.0	80	50			±5			79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1		Vo1	+5.0	1.0	10.0	80		50	±5	79	4	16	Hiccup				
MPU101-203	Vo1	+5.0	1.0	10.0	80	50	±5	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+24.0	0.2	2.0		100	±7					*MPU101-204	Vo1	+3.3	1.0	10.0	55	66	±7	76	3	16	Hiccup	Vo2	+5.0	0.5	5.0	50	±5	MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0		0.3	3.0	100	±5	Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0		0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0	100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2		+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0	100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2		+15.0	0.3	3.0	100	±6		Vo3	-15.0	0.0	1.0	100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup		Vo2	+15.0	0.3	3.0	100		±6	Vo3	+15.0					0.0	1.0	100	±5
*MPU101-204	Vo1	+3.3	1.0	10.0	55	66	±7	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+5.0	0.5	5.0		50	±5					MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	-15.0	0.0	1.0		100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	+15.0	0.0	1.0		100	±5																						
MPU101-209	Vo1	+12.0	0.7	7.0	80	100	±5	81	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo3	-12.0	0.0	1.0		100	±5					*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	-15.0	0.0	1.0		100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	+15.0	0.0	1.0		100	±5																																								
*MPU101-210	Vo1	+15.0	0.6	6.0	80	100	±5	82	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo3	-15.0	0.0	1.0		100	±5					*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup	Vo3	-24.0	0.0	1.0	100	±5	*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	-15.0	0.0	1.0		100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	+15.0	0.0	1.0		100	±5																																																										
*MPU101-215	Vo1	+5.0	1.0	10.0	74	50	±5	82	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo3	-24.0	0.0	1.0		100	±5					*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	-12.0	0.0	1.0		100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5		Vo3	+12.0	0.0	1.0		100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	-15.0	0.0	1.0		100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6		Vo3	+15.0	0.0	1.0		100	±5																																																																												
*MPU101-300	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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	Vo3	-12.0	0.0	1.0		100	±5					*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-5.0	0.0	1.0	100	±5	*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+5.0	0.0	1.0	100	±5	*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																
*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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	Vo3	+12.0	0.0	1.0		100	±5					*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-5.0	0.0	1.0	100	±5	*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+5.0	0.0	1.0	100	±5	*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																								
*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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	Vo3	-5.0	0.0	1.0		100	±5					*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+5.0	0.0	1.0	100	±5	*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																																																
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	Vo3	+5.0	0.0	1.0		100	±5					*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	-12.0	0.0	1.0	100	±5	*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																																																																								
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	Vo3	-12.0	0.0	1.0		100	±5					*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup	Vo2	+12.0	0.3	3.0	100	±5	Vo3	+12.0	0.0	1.0	100	±5	*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																																																																																																
*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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	Vo3	+12.0	0.0	1.0		100	±5					*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	-15.0	0.0	1.0	100	±5	*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																																																																																																																								
*MPU101-303	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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	Vo3	-15.0	0.0	1.0		100	±5					*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup	Vo2	+15.0	0.3	3.0	100	±6	Vo3	+15.0	0.0	1.0	100	±5																																																																																																																																																																																																																																																																																																
*MPU101-303-1	Vo1	+5.0	1.0	10.0	80	50	±5	79	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
	Vo2	+15.0	0.3	3.0		100	±6																																																																																																																																																																																																																																																																																																																												
	Vo3	+15.0	0.0	1.0		100	±5																																																																																																																																																																																																																																																																																																																												

[\*]=MOQ is required. Please contact sales.

### Rating Chart: (Multi Output)

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)		Output Current (Based on the output volt.)		Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection Mode
			min	max							
	(VDC)	(A)	(A)	(W)							
*MPU101-304	Vo1	+5.0	1.0	10.0	80	50	±5	82	3	16	Hiccup
	Vo2	+24.0	0.3	3.0		100	±5				
	Vo3	-24.0	0.0	1.0		100	±5				
*MPU101-304-1	Vo1	+5.0	1.0	10.0	80	50	±5	82	3	16	Hiccup
	Vo2	+24.0	0.3	3.0		100	±5				
	Vo3	+24.0	0.0	1.0		100	±5				
MPU101-305	Vo1	+5.0	1.0	10.0	80	50	±5	82	4	16	Hiccup
	Vo2	+24.0	0.3	3.0		100	±5				
	Vo3	-12.0	0.0	1.0		100	±5				
*MPU101-305-1	Vo1	+5.0	1.0	10.0	80	50	±5	82	4	16	Hiccup
	Vo2	+24.0	0.3	3.0		100	±5				
	Vo3	+12.0	0.0	1.0		100	±5				
*MPU101-306	Vo1	+3.3	1.0	10.0	74	66	±7	75	3	16	Hiccup
	Vo2	+12.0	0.3	3.0		100	±5				
	Vo3	-5.0	0.0	1.0		50	±5				
*MPU101-306-1	Vo1	+3.3	1.0	10.0	74	66	±7	75	3	16	Hiccup
	Vo2	+12.0	0.3	3.0		100	±5				
	Vo3	+5.0	0.0	1.0		100	±5				
MPU101-308	Vo1	+3.3	1.0	10.0	60	66	±7	60	3	16	Hiccup
	Vo2	+5.0	0.3	3.0		50	±5				
	Vo3	-12.0	0.0	1.0		100	±5				
MPU101-308-1	Vo1	+3.3	1.0	10.0	60	66	±7	60	3	16	Hiccup
	Vo2	+5.0	0.3	3.0		50	±5				
	Vo3	+12.0	0.0	1.0		100	±5				

[\*]=MOQ is required. Please contact sales.

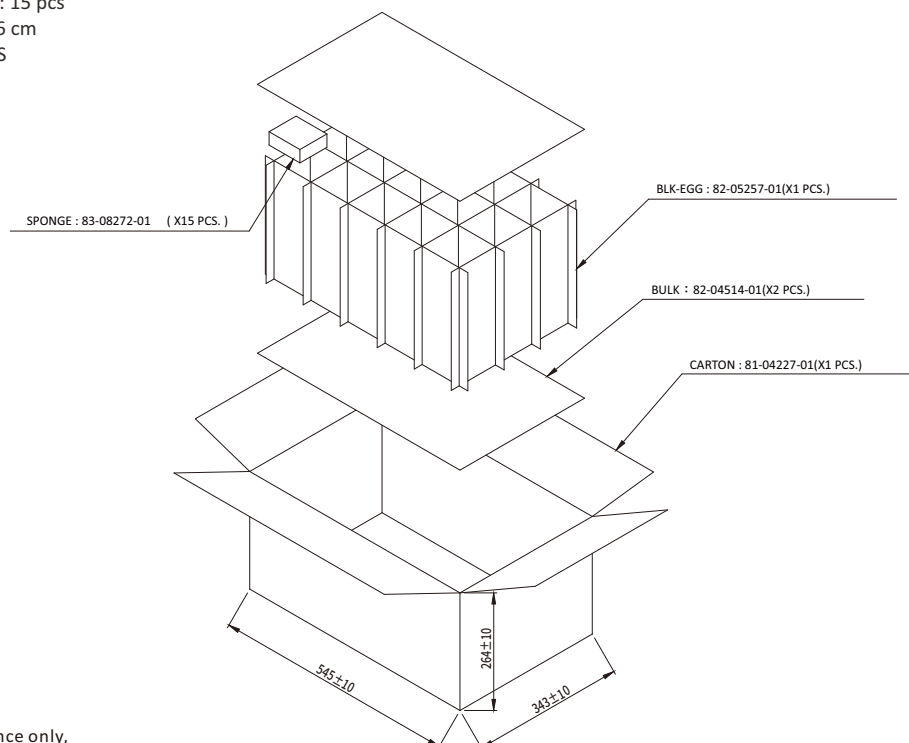
### EMC Specifications:

		EMISSION	
ITEM	STANDARD	RESULT	
Conducted	EN55011	CLASS B	
Radiated	EN55011	CLASS B	
Harmonics	EN61000-3-2	CLASS A	
Flicker	EN61000-3-3	PASS	

	ITEM	STANDARD	RESULT	CRITERION
IMMUNITY	ESD	EN61000-4-2	15KV air discharge, 8KV contact discharge	A
	RS	EN61000-4-3	PASS	A
	EFT	EN61000-4-4	2KV	A
	SURGE	EN61000-4-5	1KV line to line, 2KV line to ground	A
	CS	EN61000-4-6	3Vrms, 6Vrms	A
	PFMF	EN61000-4-8	PASS	A
	Voltage dips	EN61000-4-11	i) 0% reduction for 0.5 cycle at 50Hz	B
			ii) 0% reduction for 1 cycle at 50Hz	B
iii) 70% reduction for 25/30 cycles at 50/60Hz			C (240VAC)	
Voltage interruptions	EN61000-4-11	0% reduction for 250/300 cycles at 50/60Hz	C	

### STANDARD PACKAGING : ( UNIT: mm )

- Power Supplies per Box (full box): 15 pcs
- Box Dimensions: L55 × W34 × H26 cm
- Gross Weight (full box): 12.64 KGS
- Packaging Part No: 84-13565-01



\* Note the above packing is for reference only, please contact sales for a confirm packing information.

### Standard Connector:

Barrel Female Plug	Plug PN	Standard Connection(Default)	Wire Material	Wire Type
	P05B	P1,P2,P4=RTN P3,P5=OUT SHIELD=GND	UL2464	102~107:16AWG*5C/4FT 108~111:16AWG/4FT

### Optional Connector:

Barrel Female Plug	Plug PN	OD	ID	L	Standard Connection(Default)	Wire Material	Wire Type
	P01J	5.5	2.1	9.5	Center=OUT(+) Sleeve=RTN(-)	UL2464	108~111:16AWG/4FT
	P01K	5.5	2.1	11			
	P01M	5.5	2.5	9.5			
	P01N	5.5	2.5	11			

\* Optional output connectors available contact sales for details.