

## MPU101 series

VL7

## 100W External Medical Grade Power Supply

The MPU101 series of AC/DC switching mode power supplies provide 100 Watts of continuous output power. All supplies are UL94V-1 min compliant. All models meet FCC Part-18, CISPR-11 and EN55011 class B emission Limits, IEC 60601-1-2:2014 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.



**RoHS2**  
2011/65/EU

### 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
  - \* **Flammability Rating:** UL94V-1
  - \* **Protection Classes:** Class I
  - \* **Safety:** IEC60601-1 Edition3.1, ES60601-1:2005(R2012), CSAC22.2 NO.60601-1:14, EN60601-1:2006/A1:2013
- The MPU101-105 is available on CCC mark

### APPROVALS:



### Electrical Characteristics:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		260	VAC
Fi	Input Frequency	Sine wave	47		63	Hz
PF	Power Factor Correction		0.95		1	
Po	Output Power Range	See Rating Chart			100	W
Iil	Low Line Input Current	Full Load, Vin=100VAC		1.25		A
Iih	High Line Input Current	Full Load, Vin=240VAC		0.50		A
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			50	A
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			120	A
Ik	Safety Ground Leakage Current	Vin=264VAC, Fi=63Hz		0.1	0.175	mA
η	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	See Rating Chart			
ΔVoi	Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC	0.5		1	%
OVP	Over Voltage Protection		112		132	%
OLP	Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
thu	Hold-Up Time	Full Load, Vin=100VAC	See Rating Chart			
ts	Start-up time	Full Load, Vin=100~240VAC			2	s
Ris	Insulation Resistance	Primary to Secondary, 500VDC, 25°C/ 70% RH	50			MΩ
Tc	Temperature Coefficient	All Condition			±0.04	%/°C
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary, limit current <10mA			4000	VAC
Vpg	Dielectric Withstanding Voltage (P-G)	Primary to PE, limit current <10mA			1500	VAC
EMI	EMC Emission	Compliance to EN55011 (CISPR11), EN60601-1-2	B			Class

### Environmental:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
To	Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 50°C to 50% load at 70°C)	-10		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Ho	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity		0		95%	RH
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			15	kV
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	kV
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	200k			h
ELEV	Operating Altitude (Elevation)	All condition			3000	m
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Vsl	Surge Voltage	Line-Neutral			1	kV
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV

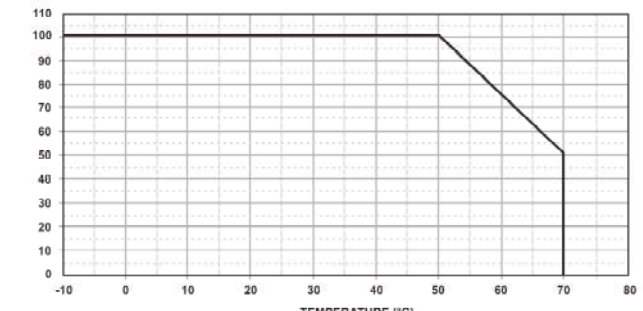
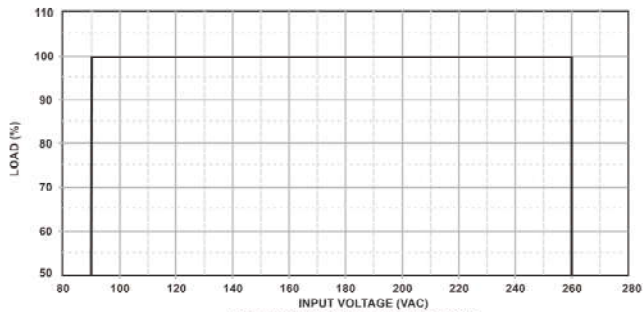
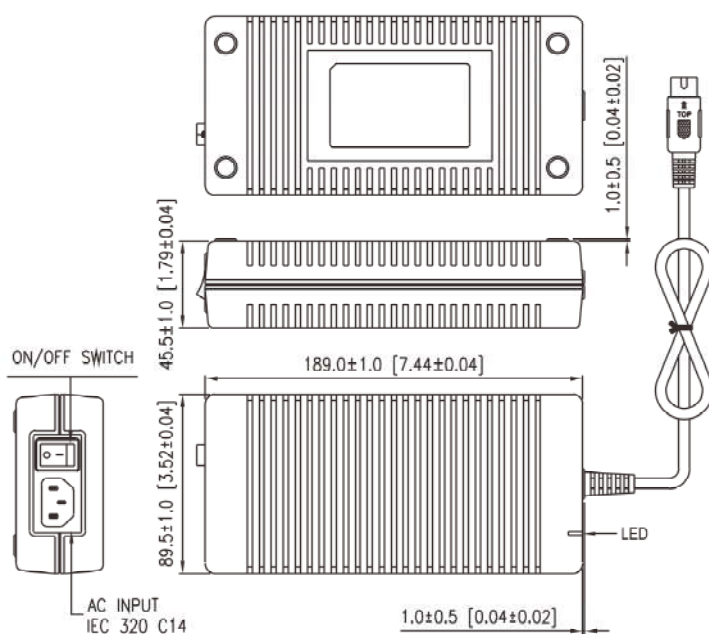
2020.09

## MPU101 series V1.7

## 100W External Medical Grade Power Supply

- 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 0.1 $\mu$ F ceramic capacitor and a 47 $\mu$ F 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.

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



NET WEIGHT: 778~800g approx.

**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	6.0	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 (W)	Ripple & Noise (mVp-p)	Total Regulation (%)	Typ. Efficiency (%)	Typ. No Load Consumption (W)	Hold-Up Time (ms)	Protection Mode																																																																																																																																																																																																																																																																																																																								
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	(VDC)		(A)	(A)																																																																																																																																																																																																																																																																																																																															
*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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*MPU101-300-1	Vo1	+3.3	1.0	10.0	74	66	±7	76	3	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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*MPU101-301	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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*MPU101-301-1	Vo1	+5.0	1.0	10.0	80	50	±5	76	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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*MPU101-302	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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*MPU101-302-1	Vo1	+5.0	1.0	10.0	80	50	±5	78	4	16	Hiccup																																																																																																																																																																																																																																																																																																																								
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*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																																																																																																																																																																																																																																																																																																																												

[\*]=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 (W)	Ripple & Noise (mVp-p)	Total Regulation (%)	Typ. Efficiency (%)	Typ. No Load Consumption (W)	Hold-Up Time (ms)	Protection Mode
			min	max							
	(VDC)		(A)	(A)							
*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.