

MPU101 series

V1.7

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
- * 2 years 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 |

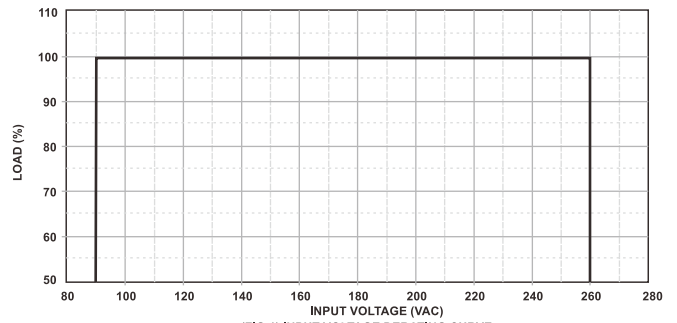
MPU101 series

V1.7

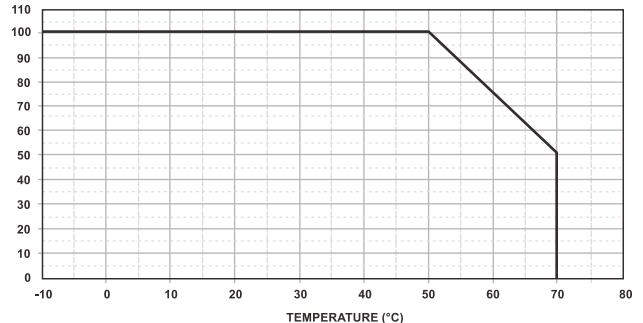
100W External Medical Grade Power Supply

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 0.1uF 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.



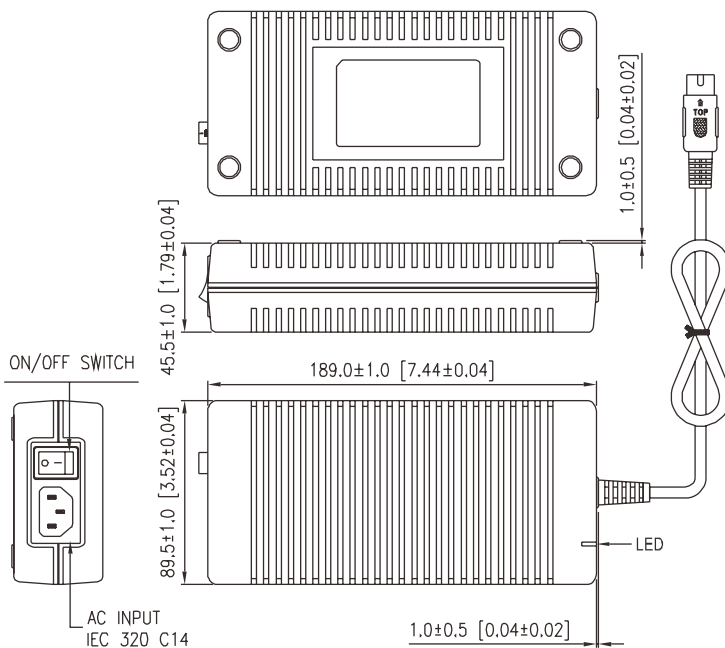
(FIG.1) INPUT VOLTAGE DERATING CURVE



(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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|-------|---|------|--------------------------------|---------------------------|-------------------------|------------------------|------------------------------------|----------------------|-----------------|-------------|-----|-------|-----|------|----|-----|----|----|---|----|--------|-----|-------|-----|-----|-----|----|-------------|-----|-------|-----|------|----|-----|----|----|---|----|--------|---------------|-------|------|-----|------|----|-------------|-----|-------|-----|------|--------|-----|-------|-----|-----|-----|--------|---------------|-------|-------|-----|------|----|-------------|-----|-------|-----|------|--------|-------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|-------|-----|------|--------|-------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|---------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|-------|-----|------|--------|---------------|-------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|---------------|-----|------|--------|-------------|--------|------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|-------|-------|-----|------|--------|---------------|---------------|-------|------|------|--------|---------------|-------|-------------|-----|------|--------|---------------|-------|------|-------|------|--------|-------------|-------|-------|-----|------|--------|---------------|-------|-------|-----|------|--------|---------------|-------|-------|-----|------|--------|-------------|---------------|-------|------|------|--------|------|-------|-----|-------|-----|--------|---------------|-------|-------|-----|------|--------|-------------|-------|-------|-----|------|--------|-----|-------|-----|-----|-----|--------|---------------|-------------|-------|------|------|-----|-------------|-----|------|-------|------|--------|-----|--------|-----|-----|-----|--------|---------------|-------|-------|-----|------|----|-----|-------|-----|-----|-----|--------|---------------|-------------|-------|------|------|------|------|----|-----|-------|----|--------|-----|--------|-----|-----|-----|--------|
| | | | min | max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[*]=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.

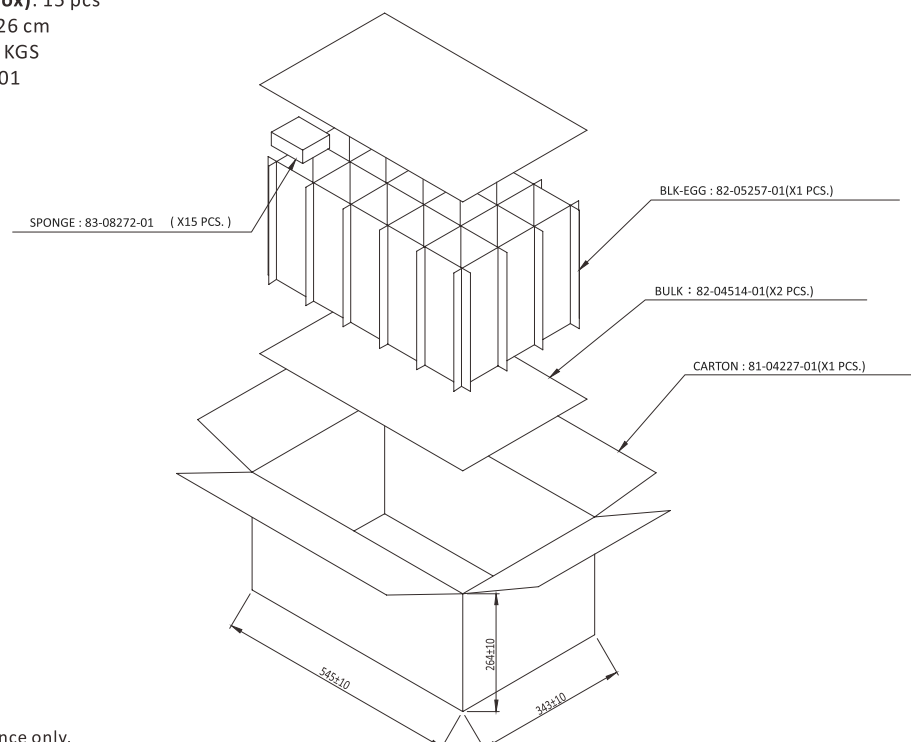
EMC Specifications:

| ITEM | EMISSION | |
|-----------|-------------|---------|
| | 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.