

MPA712/M565M System Specification

System Model	MPA712/M565M
Sine Force	5,500 kgf
Random Force	5,500 kgf
Shock Force (6 ms, half sine)	11,000 kgf
Usable Frequency Range	DC~2,400 Hz
Maximum Displacement ①	63.5 mm
Maximum Velocity (Sine)	2 m/s
Maximum Acceleration (Sine)	981 m/s ²
Shaker Unit	M565M
Armature Diameter	650 mm
Effective Moving Element Mass	55 kg
Load Attachment Points	24 stainless steel inserts
Inserts Size (Standard)	M12
Grid Pattern (Diameter, Circle)	8 on Ø 200 mm; 8 on Ø 300 mm; 8 on Ø 400 mm
First Resonance Frequency ②	2,000Hz ±5%
Max. Static Payload	1000 kg
Body Suspension Frequency	<5 Hz
Stray Flux Density ③	Less than 10 gauss
Dimension (Uncrated) (L x W x H)	1605 *1124 *1342 mm ³
Shaker Weight (Uncrated)	4,300 kg
Amplifier Unit	MPA712
Amplifier Output	60 kVA
Total Harmonic Distortion (At Rated Output)	From DC(0.1 Hz) to 500 Hz less than 0.5%; From 500Hz to 5,000 Hz less than 1.0%
Signal-Noise-Ratio	More than 65 dB at 100 V rms output, 10 KΩ input termination with rated resistive load
DC stability	Less than 0.05% of full output voltage with 10% change in line voltage.
Input Drive	1.5 V rms into 10 K Ohms for full output (120 V rms)
Amplifier Frequency response ④	From DC(0.1 Hz) to 2,000 Hz: ±1.5 dB; From DC(0.1 Hz) to 2,800 Hz: ±2.5 dB
Switching Frequency	112 kHz
Max. Output Voltage	120 V rms
Max. Output Current per module (Continuous)	50 A rms
Max. Output Current per module (Transient)	150 A rms
Amplifier Efficiency	> 90%
Dimension (Uncrated) (L x W x H)	550 *800 *2060 mm ³
Amplifier Weight (Uncrated)	800 kg
Blower Unit	HP- 4
Power Requirement	15 kW
Air Flow	1.36 m ³ /s
Air Pressure	0.075 kgf/cm ²
Dimension (Uncrated) (L x W x H)	1050 *897 *1970 mm ³
Weight (Uncrated)	290 kg

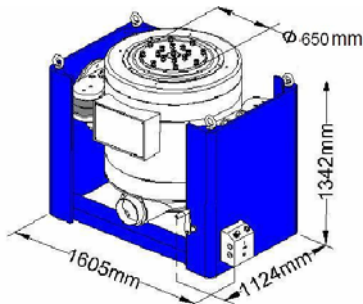
Remarks:

- ① Test payload should be less than 10% of shaker weight.
- ② Natural frequency at ± 5% tolerance.
- ③ Measured at 152 mm above armature table. Contact us for lower gauss level requirement.
- ④ Sine mode, resistive load.

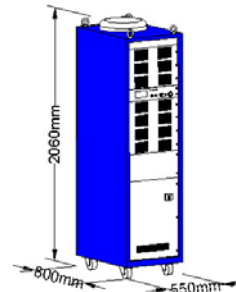
System Options

- Table Inserts (M10, 1/2"UNC, 3/8"UNC)
- Air Caster
- Air Isolation Feet
- Thermal Barrier
- Auxiliary Interlock Unit (AIU)
- Slip Table (Unibase or Stand Alone)
- Geared Aided Rotation (Chain Wheel Reducer)
- Head Expander
- Servo Control Console (SCC-1 Unit)
- Remote Control Panel (RCP)

M565M



MPA712



Specifications are correct at the time of publication. In keeping with our commitment to continuous product improvement, the information herewith is subject to change. ETS reserves the rights to amend specifications without prior notice.

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