



A-series Specifications

System Model		A12/SA1HAM	A12/EM1HAM	A22/SA2HAM	A22/EM2HAM	
Frequency Range(Hz)		0-4500 ⁴	0-4500 ⁴	0-3300	0-3300	
System Specifications	Rated Force	Sine(kN)	12	12	22	22
		Random (kN rms) ¹¹	12	12	22	22
		Shock(kN)	24	24	44	44
		High Velocity Shock(kN)	-	18	-	36
	Maximum Acc.	Sine(m/s ²)	1090	1090	1000	1000
		Random (m/s ² rms)	630	630	630	630
		Shock (m/s ² peak)	2181	2181	2000	2000
		High Velocity Shock(m/s ² peak)	-	1636	-	1636
	Maximum Vel.	Sine(m/s)	2	2	2	2
		Shock (m/s peak)	2.5	2.5	2.5	2.5
		High Velocity Shock(m/s peak)	-	3.5	-	3.5
	Maximum Dsp.	Sine(mmp-p)	51	51	51	51
		Maximum Travel (mmp-p)	64	64	64	66
	Maximum Load(kg)		200	200	300	300
Power Requirements (kVA) ¹²		20.4	20.4	30	30	
Breaker Capacity(A) ¹³		40	40	60	60	
Vibration Generator	Model	A12	A12	A22	A22	
	Armature Mass(Kg)	11	11	22	22	
	Armature Diameter(φmm)	210	210	280	280	
	Allowable Eccentric Moment(N·m)	294	294	700	700	
	Dimensions(mm) WxHxD	946x827x676	946x827x676	1038x920x775	1038x920x775	
	Shaker Body Diameter(mm)	585	585	678	678	
	Mass(kg)	1080	1080	1600	1600	
Power Amplifier	Model	SA1HAM-A12	EM1HAM-A12	SA2HAM-A22	EM2HAM-A22	
	Maximum Output(kVA)	13	13	24	24	
	Dimensions(mm) WxHxD	580x1950x850	580x1950x850	580x1950x850	580x1950x850	
	Mass(kg)	280	330	350	410	
Controller	Vibration Controller	See Vibration Controller K2				
Cooling	Cooling Method	Air cooling				
Blower	Dimensions (mm)WxHxD ¹⁶	1023×2285×531	1023×2285×531	929×2175×534	929×2175×534	
	Mass(kg)	150	150	150	150	
	Wattage(kw)	4	4	4	4	
	Duct Hose Diameter(φ)	125	125	200	200	



System Model		A30/SA3HAM	A30/EM3HAM	A45/SA5HAM	A45/EM5HAM	
Frequency Range(Hz)		0-2600	0-2600	0-2600	0-2600	
System Specifications	Rated Force	Sine(kN)	30	30	45	45
		Random (kN rms) ^{*1}	30	30	45	45
		Shock(kN)	60	60	90	90
		High Velocity Shock(kN)	-	50	-	80
	Maximum Acc.	Sine(m/s ²)	900	900	900	900
		Random (m/s ² rms)	630	630	630	630
		Shock (m/s ² peak)	1818	1818	1800	1800
		High Velocity Shock(m/s ² peak)	-	1515	-	1600
	Maximum Vel.	Sine(m/s)	2	2	2	2
		Shock (m/s peak)	2.5	2.5	2.5	2.5
		High Velocity Shock(m/s peak)	-	3.5	-	3.5
	Maximum Dsp.	Sine(mmp-p)	76.2	76.2	76.2	76.2
		Maximum Travel (mmp-p)	82	82	82	82
	Maximum Load(kg)		400	400	600	600
Power Requirements (kVA) ^{*2}		36	36	57	57	
Breaker Capacity(A) ^{*3}		75	75	100	100	
Vibration Generator	Model	A30	A30	A45	A45	
	Armature Mass(Kg)	33	33	50	50	
	Armature Diameter (φmm)	290	290	436	436	
	Allowable Eccentric Moment(N·m)	850	850	1550	1550	
	Dimensions (mm)WxHxD	1100x1048x840	1100x1048x840	1232x1215x1040	1232x1215x1040	
	Shaker Body Diameter(mm)	725	725	825	825	
	Mass(kg)	2000	2000	3000	3000	
Power Amplifier	Model	SA3HAM-A30	EM3HAM-A30	SA5HAM-A45	EM5HAM-A45	
	Maximum Output(kVA)	31	31	44	44	
	Dimensions (mm)WxHxD	580x1950x850	580x1950x850	580x1950x850	1160x1950x850	
	Mass(kg)	420	500	900	1000	
Controller	Vibration Controller	See Vibration Controller K2				
Cooling	Cooling Method		Air cooling			
	Blower	Dimensions (mm)WxHxD ^{*6}	1043x2335x640	1043x2335x640	1160x2405x787	1160x2405x787
		Mass(kg)	150	150	250	250
		Wattage(kw)	5.5	5.5	11	11
		Duct Hose Diameter(φ)	200	200	250	250



System Model		A65/SA6HAM ⁷	A65/EM7HAM ⁷	A74/EM8HAM ⁷	A74/EM10HAM ⁷	
Frequency Range(Hz)		0-2600 ⁵	0-2600 ⁵	0-2600 ⁵	0-2600 ⁵	
System Specifications	Rated Force	Sine(kN)	65	65	74	74
		Random (kN rms) ^{*1}	65	65	74	74
		Shock(kN)	130	130	148	180
		High Velocity Shock(kN)	-	120	120	160
	Maximum Acc.	Sine(m/s ²)	900	900	1000	1000
		Random (m/s ² rms)	630	630	630	630
		Shock (m/s ² peak)	1806	1806	2000	2432
		High Velocity Shock(m/s ² peak)	-	1666	1621	2162
	Maximum Vel.	Sine(m/s)	2	2	2	2
		Shock (m/s peak)	2.5	2.5	2.5	2.5
		High Velocity Shock(m/s peak)	-	3.5	3.5	3.5
	Maximum Dsp.	Sine(mmp-p)	76.2	76.2	76.2	76.2
		Maximum Travel (mmp-p)	82	82	82	82
	Maximum Load(kg)		1000	1000	1000	1000
Power Requirements (kVA) ^{*2}		83	83	118	118	
Breaker Capacity(A) ^{*3}		150	150	175	175	
Vibration Generator	Model	A65	A65	A74	A74	
	Armature Mass(Kg)	72	72	74	74	
	Armature Diameter (φmm)	446	446	446	446	
	Allowable Eccentric Moment(N·m)	1550	1550	1550	1550	
	Dimensions (mm)WxHxD	1310x1253x1040	1310x1253x1040	1310x1253x1040	1310x1253x1040	
	Shaker Body Diameter(mm)	925	925	925	925	
	Mass(kg)	3500	3500	3500	3500	
Power Amplifier	Model	SA6HAM-A65	EM7HAM-A65	EM8HAM-A74	EM10HAM-A74	
	Maximum Output(kVA)	68	68	100	100	
	Dimensions (mm)WxHxD	580x1950x850	1160x1950x850	1160x1950x850	1740x1950x850	
	Mass(kg)	1000	1150	1500	1850	
Controller	Vibration Controller	See Vibration Controller K2				
Cooling	Cooling Method		Air cooling			
	Blower	Dimensions (mm)WxHxD ^{*6}	1294x2540x871	1294x2540x871	1462x2800x930	1462x2800x930
		Mass(kg)	268	268	320	320
		Wattage(kw)	18.5	18.5	30	30
		Duct Hose Diameter(φ)	250	250	250	250

*1 Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements.

*2 Power supply: 3-phase 200/220/380/400/415 V, 50/60 Hz. A transformer is required for other supply voltages.

*3 In case of 400 V

*4 Above 4000 Hz, the force rolls-off at a rate of -6 dB/oct.

*5 Above 2000 Hz, the force rolls-off at a rate of -12 dB/oct.

*6 Spec described above is in case of 60Hz. Dimension is changed in case of 50Hz.

*7 Export License is required for exporting the shaker system of over 50 kN Sine force.

*The specification shows the maximum system performance. For long-duration tests, de-rating by up to 70% must be applied. Continuous use at maximum levels may cause failure.

*In the case of Random vibration test, please set the test definition of the peak value of acceleration waveform to be operated less than the maximum acceleration of Shock.

*Frequency range values vary according to sensor and vibration controller.

*Armature mass and acceleration may change when chamber is combined.