

# Derritron Complete Systems

Technologically advanced, industry-leading controllers

## Small System Ratings:

System Model Number	Shaker Model	Sine Force (lbf pk) [n]	Random Force (lbf rms) [n]	Displacement (In. p-p) [mm p-p]	Velocity (in./s) [m/s]	Effective Moving Mass (g.)
DVS-T2	VPT 2	2 [9]	N/A	.12 [3]	39 [1]	15
DVS-T4	VPT 4	4 [18]	N/A	.2 [5]	39 [1]	28
DVS-T17	VPT 17	17 [75]	9 [40]	.4 [10]	59 [1.5]	150
DVS-T22	VPT 22	22 [100]	11 [50]	.6, *1 [15, *25]	59 [1.5]	200
DVS-T45	VPT 45	45 [200]	22 [100]	.6, *1 [15, *25]	59 [1.5]	200

## Medium System Ratings:

System Model Number	Shaker Model	Power Amplifier	Sine Force (lbf pk), [N]	Random Force (lbf rms), [N]	Displacement (In. p-p) [mm p-p]	Velocity (in./s) [m/s]	Armature Weight (lbs.), [Kg.]
DVS-50	VP 5	DLA 1050	50 [222]	24 [106]	0.4 [10.2]	40 [1.01]	1.1 [5]
DVS-300	VP 50	DLA 1050	300 [1334]	190 [845]	0.7 [17.8]	40 [1.01]	5.5 [2.5]
DVS-500	VP 50	DSA 18-1	500 [2220]	300 [1334]	0.7 [17.8]	60 [1.52]	5.5 [2.5]
DVS-700	VP 70	DSA 24-1	700 [3113]	400 [1779]	0.7 [17.8]	60 [1.52]	5.5 [2.5]
DVS-900	VP 90	DSA 18-2	900 [4005]	450 [2003]	1 [25.4]	39 [1.00]	13.4 [6.1]
DVS-900LS	VP 90LS	DSA 18-2	900 [4005]	900 [4005]	2 [50.8]	67 [1.70]	16.5 [7.5]
DVS-1450SS-7	VP 145SS-7	DSA-18-2	1450 [6450]	725 [3226]	1 [25.4]	51 [1.30]	15.4 [7]
DVS-1450-7	VP 145-7	DSA-18-3	1450 [6450]	1450 [6450]	2 [50.8]	67 [1.70]	17.6 [8]
DVS-1450-13	VP 145-13	DSA-18-3	1450 [6450]	1450 [6450]	2 [50.8]	67 [1.70]	18.7 [8.5]

## Large System Ratings:

System Model Number	Shaker Model	Power Amplifier	Sine Force (lbf pk) [N]	Random Force (lbf rms) [N]	Displacement (in. p-p) [mm p-p]	Velocity (in./s) [m/s]	Effective Armature Weight (lbs.) [Kg.]
DVS-1800SS-7	VP 180SS-7	DSA-18-3	1800 [8000]	900 [4500]	1 [25.4]	51 [1.30]	16.5 [7.5]
DVS-1800-7	VP 180-7	DSA-18-3	1800 [8000]	1800 [8000]	2 [50.8]	67 [1.70]	19.4 [8.8]
DVS-1800-13	VP 180-13	DSA-18-3	1800 [8000]	1800 [8000]	2 [50.8]	67 [1.70]	20.5 [9.3]
DVS-2500SS-8	VP 250SS-8	DSA 18-2	2500 [11125]	1250 [5562]	1 [25.4]	51 [1.30]	22.5 [10.2]
DVS-2500-8	VP 250-8	DSA-18-3	2500 [11125]	2500 [11125]	2 [50.8]	71 [1.80]	24.2 [11]
DVS-2500-13	VP 250-13	DSA 18-3	2500 [11125]	2500 [11125]	2 [50.8]	71 [1.80]	27.5 [12.5]
DVS-3400-8	VP 340-8	DSA 24-3	3400 [15130]	3400 [15130]	2 [50.8]	71 [1.80]	28.7 [13]
DVS-3400-13	VP 340-13	DSA 24-3	3400 [15130]	3400 [15130]	2 [50.8]	71 [1.80]	33.0 [15]

## Extra Large System Ratings:

System Model Number	Shaker Model	Power Amplifier	Sine Force (lbf pk) [N]	Random Force (lbf rms) [N]	Displacement (in. p-p) [mm p-p]	Velocity (in./s) [m/s]	Effective Armature Weight (lbs.) [Kg.]
DVS-4500-13	VP 450-13	DSA-24-3	4500 [20000]	4500 [20000]	2 [50.8]	71 [1.80]	44.1 [20]
DVS-4500-17	VP 450-17	DSA-24-3	4500 [20000]	4500 [20000]	2 [50.8]	71 [1.80]	48.5 [22]
DVS-4500-25	VP 450-25	DSA-24-3	4500 [20000]	4500 [20000]	2 [50.8]	71 [1.80]	59.5 [27]
DVS-6000-13	VP 600-13	DSA-36-6	6000 [26700]	6000 [26700]	2 [50.8]	70 [1.78]	58.4 [26.5]
DVS-6000-17	VP 600-17	DSA-36-6	6000 [26700]	6000 [26700]	2 [50.8]	70 [1.78]	61.7 [28]
DVS-6000-25	VP 600-25	DSA-36-6	6000 [26700]	6000 [26700]	2 [50.8]	70 [1.78]	88.2 [40]
DVS-8000-13	VP 800-13	DSA 48-6	8000 [35000]	8000 [35000]	2 [50.8]	70 [1.78]	63.9 [29]
DVS-8000-17	VP 800-17	DSA 48-6	8000 [35000]	8000 [35000]	2 [50.8]	70 [1.78]	79.4 [36.1]
DVS-8000-25	VP 800-25	DSA 48-6	8000 [35000]	8000 [35000]	2 [50.8]	70 [1.78]	92.6 [42.1]