

MCS Decision Matrix

Motor	Diameter (in)	Weight (lbs)	Max Horsepower (hp)	Motor Efficiency (%)	Max Torque (ft-lbs)	Voltage (V)	Current (A)	Peak power (hp)	Max RPM (rpm)
HPEVS AC 50	8	85	71	89	120	72-108	550-650	52	6500

Controller	2 Min RMS Power Rating (kVA)	Battery Voltage (V)	2 Min RMS Current Rating Arms (A)	Peak System Torque (ft-lbs)
Curtis 1238R-7601	73.6	72-96	650	115

Dynamometers	Power (hp)	Torque Capacity (ft-lbs)	Max RPM (rpm)	Water Use (gpm)	Custom motor mounting	Price	Data Acquisition Software
Huff	100	150+	11250	Self Contained	Yes	\$9,975	Included
Taylor	107 (80 kW)	118 (160 Nm)	14000	15 (0.9 L/s)	N/A	29262	Included