Aircraft parameters: empty weight fraction = 0.53; battery energy density = 400 Wh/kg; cruising speed = 150 mph
8 rotors; 5 rotor blades; mean lift coefficient = 1.0; autonomy enabled. Lift + cruise configuration.
Sizing mission (piloted): range = 50 nmi; 3 passengers; 120s hover time; reserve type = FAA helicopter VFR (20-minute loiter)
Revenue mission (piloted): range = 30 nmi; 2.0 passengers; 30s hover time; no reserve; charger power = 200 kW
Deadhead mission (autonomous): range = 30 nmi; 0.0 passengers; 30s hover time; no reserve; deadhead ratio = 0.2