Name	Value
a	347.8882
A	3.1416
a_mr	1
a_q	1
AR	12
aux_power	5000
batt_reserve	0.8500
BL	0.0115
BL2	0.0117
c	0.0833
C_P	2.4226e-05
C_T	9.2919e-04
Cd	0.0110
cl_alpha	5.7300
Cl_req	0.6924
collective	12.1880
count_k	980
counter	1
CP	2.3294e-05
CP2	2.4226e-05
Cpi	5.1654e-04
Cpp	8.7535e-05
Cruise_RPM	1661
Ct	0.0074
CT	9.1870e-04
CT2	9.2919e-04
e_section_10	4.1261e+06
e_section_11	3.8780e+07
e_section_12	0
e_section_13	1.0525e+06
e_section_14	1.0798e+07
e_section_15	1.1052e+06
e_section_2	1.0525e+06
e_section_3	1.0140e+07
e_section_4	1.0525e+06
e_section_5	4.1261e+06
e_section_6	3.8780e+07
e_section_7	0
e_section_8	3.1576e+06
e_section_9	3.9636e+08
electrical_loss	1.0200

Name	Value
endurance	8.8261e+03
energy	1.0929e+09
energy_battery	8.9235e+03
energy_hydrogen	1.5791e+05
energy_init	4.8322e+08
energy_init_battery	2.7306e+07
energy_MJ_hydro...	568.4933
err	44.7342
err2	5.0452
err_1	-28.1606
err_2	5.0452
error	0.0785
eta	4.9860
F_M	0.8267
Fcb	2
Fcp	1
filename	'final_design_point.m...
FM	0.8453
FM2	0.8267
found	1
found2	0
g	9.8100
gama	1.4000
gibrish	0
GW	*1x13 double*
h	300
HP_mr	67.1943
i	1
Imax_fr	152.2770
Iramp	1
j	1
k	1
k_max	979
k_max2	1660
k_mid	979
k_mid2	1661
k_min	980
k_min2	1661
k_star	0.3500
kg_to_lb	2.2046
kmrc	26

Name	Value
kt	1.3000
Kv	53.2407
l	1
L	2.6667
L_by_D	8
Lf	12.7467
m	12
m_avionics	12.3075
m_battery	25.4957
m_hydrogen	65.7978
m_instruments	2.5493
m_rotor_group	27.2776
m_to_ft	3.2808
m_transmission	1.6000
m_wing	46.0514
manti_ice	0
mcontrols	0.4757
mcontrols_pounds	1.0490
mech_power	9.6399e+04
mech_power2	589.9926
melec	4.9230
mempty	246.2282
mesc_fr	0.2565
mfixed	14.8568
mfuel_cell	223.2936
mfuel_system	132
mfuselage	144.4992
mfuselage_pounds	106.2104
mgross	654.5218
mhub	0
mhub_pounds	12.0399
mhydrogen_fuel_...	197.7978
mlg	6.5444
mmotor	1.3489
motor_efficiency	0.8500
mpayload	185
mrotor	1.8043
mrotor_pounds	3.9786
mu	1.0900
n	13
N_rotors	8

Name	Value
N_rotors_cruise	8
Nb	3
Ngust	4.6149
Ngust_ult	6.9223
Nmanu	3.9249
Nmanu_ult	6.4762
nmgb	1
No_of_battery	2
Nominal_volt	43.2000
nondp	4.1851e+08
nondp2	1.9704e+07
nondt	8.6881e+05
nondt2	1.1328e+05
nult	2.5000
Nult	6.9223
O1	1.0525e+05
O2	654.5218
O3	1.5791e+05
O4	223.2936
O5	19.7900
O6	0.0644
O7	256.9667
O8	1.0025e+05
omega	481.7109
omega2	173.9395
P	9.7944e+04
P0	101325
P_cruise_endurance	6.8812e+03
P_rand	408.5752
p_section_3	1.0918e+05
Pclimb	1.3647e+04
Pcruise	8.0791e+03
Pdescent	9.5606e+03
power_1	9.6399e+04
power_2	589.9926
power_5	1.0315e+05
Power_camera	25
power_cruise	6.4633e+04
power_cruise_hover	589.9926
power_endu	5.5049e+04
power_h	1.0025e+05

Name	Value
power_mech	1.0025e+05
Power_servo	100
Power_total_hover	1.0525e+05
pre_weight	585
R	1
rho	1.1918
rho0	1.2250
rpm	4600
RPM	4600
S_battery	12
save_file	0
save_variable	1
sed_battery	350
sed_hydrogen	16000
Sf	30
solidity	0.0637
solution_check	1
T	301.2101
T0	303.1600
T9	7200
T9_str	'120_00'
tc_ratio	0.2500
theta0	*1x4001 double*
theta_1	2.4736
theta_2	2.4913
theta_h	0.3454
thetatw	-18
thrust_1	6.3854e+03
thrust_2	105.2568
Thrust_cruise	802.5110
thrust_h	6.4583e+03
thrust_total	6.4583e+03
time_section_10	40
time_section_11	600
time_section_12	31.5789
time_section_13	10
time_section_14	120
time_section_15	15
time_section_2	15
time_section_3	78.9474
time_section_4	10

Name	Value
time_section_5	40
time_section_6	600
time_section_7	35.5263
time_section_8	30
torque_1	25.0147
torque_2	3.3919
torque_h	26.0151
total_energy	5.1053e+08
trans_loss	1.0300
V1	1
V2	481.7109
V3	6.4583e+03
V4	44.7342
V5	26.0151
V6	4600
V7	1.3847
V_cruise	50
V_cruise_climb	6
V_endu_cruise	42.5000
Vc	0.7600
Vd	0.5000
Vendu_str	'42_50'
Vtip	481.7109
wing_AR	10
wing_b	7
wing_Cl_design	0.5000
wing_root_chord	0.6156
wing_S	4.3095
wing_taper_ratio	1
z_mr	1