

bidirec											
lbref	lbatt	Vbatt	Pbatt	Idc	Vdc	Pdc	P1loss	efficiency1	Pa	P2loss	efficiency2
-1	-1.09	74.3	-80.987	-0.6	120	-72	8.987	1.1248194	-108	-36	0.666667
-1.5	-1.58	74.4	-117.552	-1	120	-120	-2.448	0.9796	-145	-25	0.827586
-2	-2.06	74.6	-153.676	-1.4	120	-168	-14.324	0.9147381	-180	-12	0.933333

boost						
PV duty	Ppv	Idc	Vdc	Pdc	Ploss	efficiency
0.6	27	0.1	120	12	15	0.44444
0.65	81	0.6	120	72	9	0.88889
0.7	70	0.5	120	60	10	0.85714

buck						
wind speed	Pgen	Idc	Vdc	Pdc	Ploss	efficiency
5	33	0.1	120	12	21	0.36364
5.5	57	0.2	120	24	33	0.42105
6	90	0.4	120	48	42	0.53333