

Power Team Mission Data								
Solar Array								
Column	A	B	C		D	E	F	G
Table Headings	UTC	Solar Array Efficiency	Power Generation		Current Power Load	Rate of Charging or Draining	Charging or Draining	New Time to Criticality
Units	HH:MM	%	Kilowatts/Hour		Kilowatts/Hour	Kilowatts/Hour		Minutes
Calculations	From Data	From Data	C=B/100 X 24.49*		See Power Systems Calculator	E = C-D	Pos # = Charging Neg # =Draining	G= Col C from Batt Resv - 12.25 Column E
					Low			Low
	15:00	96	23.51	Low	24.49	-0.98	Draining	n/a (cannot calculate)
				High	24.49	-0.98	Draining	n/a (cannot calculate)
	15:15	95	23.27	Low	21.00	2.27	Charging	n/a
				High	24.49	-1.22	Draining	9.00
	15:30	94	23.02	Low	21.00	2.02	Charging	n/a
				High	24.49	-1.47	Draining	8.33
	15:45	75	18.37	Low	19.00	-0.63	Draining	17.42
				High	24.49	-6.12	Draining	1.80
	16:00	0	0.00	Low	15.00	-15.00	Draining	0.49
				High	18.00	-18.00	Draining	0.41
	16:15	0	0.00	Low	12.00	-12.00	Draining	0.31
				High	15.00	-15.00	Draining	0.24
	16:30	45	11.02	Low	13.00	-1.98	Draining	0.99
				High	15.00	-3.98	Draining	0.49
	16:45	36	8.82	Low	12.00	-3.18	Draining	1.08
				High	15.00	-6.18	Draining	0.55
	17:00	40	9.80	Low	16.00	-6.20	Draining	0.99
				High	22.00	-12.20	Draining	0.50

	17:15	46	11.27	Low	15.00	-3.73	Draining	2.16
				High	19.00	-7.73	Draining	1.04
	17:30	0	0.00	Low	13.00	-13.00	Draining	0.41
				High	17.00	-17.00	Draining	0.32
	17:45	0	0.00	Low	11.00	-11.00	Draining	0.22
				High	13.00	-13.00	Draining	0.19
	18:00	85	20.82	Low	21.00	-0.18	Draining	2.70
				High	21.50	-0.68	Draining	0.72
	18:15	90	22.04	Low	23.00	-0.96	Draining	4.08
				High	24.49	-2.45	Draining	1.60
	18:30	91	22.29	Low	23.00	-0.71	Draining	8.91
				High	24.49	-2.20	Draining	2.89
	18:45	97	23.76	Low	24.00	-0.24	Draining	42.01
				High	24.49	-0.73	Draining	13.99