

## HPS3000-9 Output Power Derating

Output @ 46V											
Pout (W)	Load(A)		% Load	Vin	Iin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
270.74	5.853	0.3	10	200	1.7723	0.939	46.094	5.775	4.96	0.3	80.424
541.48	11.706	0.6	20	200	3.319	0.941	46.068	11.662	4.9459	0.6	86.484
1353.69	29.265	1.5	50	200	7.531	0.99	45.974	29.306	4.9092	1.5	90.849
1624.43	35.118	1.8	60	200	8.962	0.993	45.931	35.025	4.8973	1.8	90.881
1895.17	40.971	2.1	70	200	10.45	0.995	45.876	40.912	4.8831	2.1	90.747
2165.90	46.824	2.4	80	199.9	11.966	0.996	45.825	46.818	4.8684	2.4	90.543
2707.38	58.530	3	90.246	199.9	15.029	0.998	45.699	58.575	4.8404	3	89.763
2800.00	60.543	3	93.33	200	15.531	0.998	45.686	60.468	4.8412	3	89.583
2875.65	62.188	3	100	199.9	16.156	0.998	45.667	62.192	4.8415	3	88.568
<b>3000.00</b>	<b>64.891</b>	<b>3</b>	-	200.1	16.744	0.998	45.646	64.931	4.8402	3	<b>89.072</b>

Output @ 47V											
Pout (W)	Load(A)		% Load	Vin	Iin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
276.59	5.853	0.3	10	200	1.8129	0.938	47.096	5.775	4.96	0.3	80.408
553.18	11.706	0.6	20	200	3.375	0.945	47.063	11.662	4.9456	0.6	86.508
1382.96	29.265	1.5	50	199.9	7.683	0.991	46.971	29.306	4.9095	1.5	90.926
1659.55	35.118	1.8	60	199.9	9.144	0.994	46.923	35.043	4.8972	1.8	90.986
1936.14	40.971	2.1	70	199.9	10.679	0.995	46.871	40.931	4.8831	2.1	90.804
2212.73	46.824	2.4	80	199.9	12.208	0.996	46.818	46.837	4.8683	2.4	90.697
2765.91	58.530	3	82.197	199.9	15.371	0.998	46.691	58.593	4.8466	3	89.688
2800.00	59.255	3.000	93.33	200	15.531	0.998	46.685	59.212	4.8451	3	89.641
2937.84	62.188	3.000	100	200	16.333	0.998	46.651	62.192	4.8479	3	89.442
<b>3000.00</b>	<b>63.511</b>	<b>3</b>	-	200	16.703	0.999	46.627	63.506	4.8457	3	<b>89.164</b>

		Output @ 48V									
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
282.44	5.853	0.3	10	200	2.004	0.862	48.109	5.775	4.9599	0.3	80.847
564.89	11.706	0.6	20	200.1	3.379	0.96	48.072	11.643	4.9452	0.6018	86.687
1412.22	29.265	1.5	50	199.9	7.806	0.994	47.966	29.287	4.9071	1.5	91.044
1694.66	35.118	1.8	60	200.1	9.337	0.993	47.928	35.062	4.8946	1.8	91.053
1977.11	40.971	2.1	70	200	10.895	0.995	47.876	40.931	4.8821	2.1	90.857
2259.55	46.824	2.4	80	199.9	12.468	0.996	47.816	46.837	4.8675	2.4	90.689
2824.44	58.530	3	94.15	199.9	15.678	0.998	47.69	58.593	4.8469	3	89.803
2900.00	60.104	3	96.67	199.9	16.06	0.998	47.672	60	4.8479	3	89.728
3000.00	62.188	3	100	199.9	16.713	0.998	47.638	62.231	4.8428	3	89.348

		Output @ 49V									
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
288.30	5.853	0.3	10	200	1.8709	0.946	49.102	5.775	4.9602	0.3	80.529
576.59	11.706	0.6	20	200	3.468	0.956	49.074	11.662	4.9462	0.6	86.757
1441.49	29.265	1.5	50	199.9	7.975	0.993	48.975	29.306	4.9101	1.5	91.130
1729.78	35.118	1.8	60	199.9	9.508	0.995	48.935	35.043	4.898	1.8	91.143
2018.08	40.971	2.1	70	199.9	11.096	0.996	48.882	40.931	4.884	2.1	91.030
2306.38	46.824	2.4	80	199.9	12.689	0.997	48.825	46.837	4.8692	2.3981	90.888
2882.97	58.530	3	96.099	200	15.974	0.998	48.691	58.593	4.8486	3	89.935
2900.00	58.878	3.000	96.67	199.9	16.069	0.998	48.686	58.893	4.8486	3	89.895
3000.00	60.918	3.000	100	200.1	16.64	0.998	48.663	60.956	4.8466	3	89.703

Output @ 50V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
294.15	5.853	0.3	10	200	1.8977	0.95	50.126	5.7937	4.9601	0.3	80.958
588.30	11.706	0.6	20	200	3.506	0.962	50.097	11.662	4.946	0.6	87.050
1470.75	29.265	1.5	50	199.9	8.129	0.995	50.009	29.325	4.9097	1.5	91.157
1764.90	35.118	1.8	60	200	9.704	0.994	49.963	35.062	4.8974	1.8	91.264
2059.05	40.971	2.1	70	199.9	11.336	0.995	49.914	40.968	4.8837	2.1	91.147
2353.20	46.824	2.4	80	199.9	12.966	0.996	49.849	46.837	4.8685	2.4	90.894
2941.50	58.530	3	98.03	199.8	16.313	0.998	49.714	58.593	4.8473	3	89.997
3000.00	59.700	3.000	100	200	16.626	0.998	49.701	59.681	4.8469	3	89.821

Output @ 51V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
300.00	5.853	0.3	10	200	1.9461	0.947	51.095	5.8125	4.9602	0.29	80.965
600.01	11.706	0.6	20	199.9	3.618	0.952	51.062	11.681	4.9457	0.6	87.059
1500.02	29.265	1.5	50	200	8.292	0.992	50.955	29.325	4.9082	1.5	91.276
1800.02	35.118	1.8	60	200	9.876	0.994	50.926	35.062	4.8967	1.8	91.394
2400.02	46.824	2.4	80	200	13.199	0.997	50.851	46.837	4.8687	2.41	90.940
3000.03	58.530	3	100	200	16.619	0.998	50.715	58.593	4.8464	3	90.019

Output @ 52V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
299.98	5.740	0.3	10	200	2.013	0.932	52.129	5.775	4.9601	0.3	80.627
599.96	11.480	0.6	20	200	3.706	0.935	52.089	11.493	4.9457	0.6	86.812
1499.90	28.700	1.5	50	199.9	8.301	0.988	51.995	28.668	4.9085	1.5	91.369
1799.88	34.440	1.8	60	199.9	9.918	0.992	51.956	34.406	4.8965	1.8	91.339
2099.86	40.180	2.1	70	199.9	11.553	0.994	51.9	40.143	4.8831	2.1	91.204
2399.84	45.920	2.4	80	200	13.19	0.995	51.85	45.862	4.8687	2.4	91.040
2999.80	57.400	3	100	200	16.589	0.997	51.718	57.468	4.8474	3	90.291

Output @ 53V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
300.00	5.632	0.3	10	200	1.9667	0.946	53.089	5.625	4.9594	0.3	80.654
599.99	11.264	0.6	20	200	3.609	0.951	53.074	11.175	4.9456	0.6	86.836
1499.98	28.160	1.5	50	199.9	8.28	0.992	52.976	28.2	4.9092	1.5	91.434
1799.98	33.792	1.8	60	200	9.884	0.995	52.936	33.787	4.8962	1.8	91.380
2099.97	39.424	2.1	70	199.9	11.501	0.996	52.885	39.356	4.883	2.1	91.342
2399.97	45.056	2.4	80	199.9	13.178	0.997	52.836	45.093	4.8689	2.4	91.160
2999.96	56.320	3	100	199.8	16.565	0.998	52.713	56.381	4.8479	3	90.418

Output @ 54V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
300.01	5.528	0.3	10	200	1.9519	0.948	54.102	5.4562	4.9599	0.3	80.166
600.02	11.056	0.6	20	200	3.626	0.953	54.077	11.025	4.9458	0.6	86.696
1500.06	27.640	1.5	50	199.9	8.248	0.992	53.988	27.581	4.9098	1.5	91.491
1800.07	33.168	1.8	60	200	9.875	0.994	53.941	33.131	4.8974	1.8	91.482
2100.08	38.696	2.1	70	200	11.525	0.996	53.889	38.718	4.8834	2.1	91.330
2400.10	44.224	2.4	80	200	13.171	0.997	53.842	44.287	4.869	2.4	91.238
3000.12	55.280	3	100	200	16.511	0.998	53.723	55.275	4.8481	3	90.548

Output @ 55V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
299.99	5.427	0.3	10	200	1.9854	0.948	55.107	5.4562	4.9599	0.3	80.270
599.97	10.854	0.6	20	200	3.636	0.952	55.075	10.893	4.9459	0.6	87.087
1499.93	27.135	1.5	50	200	8.25	0.992	54.983	27.093	4.9099	1.5	91.460
1799.91	32.562	1.8	60	200	9.719	0.994	54.938	32.043	4.8971	1.8	91.567
2099.90	37.989	2.1	70	200	11.488	0.996	54.897	37.95	4.8834	2.1	91.487
2399.88	43.416	2.4	80	200	13.163	0.997	54.85	43.5	4.8691	2.4	91.350
2999.85	54.270	3	100	199.9	16.486	0.998	54.735	54.318	4.8485	3	90.838

Output @ 56V											
Pout (W)	Load(A)		% Load	Vin	lin	PF	Main Output	Iout	5Vsb	Isb	Eff (%)
299.98	5.330	0.3	10	200	1.9512	0.951	56.09	5.3062	4.9599	0.3	80.598
599.96	10.660	0.6	20	200	3.632	0.956	56.066	10.706	4.9459	0.6	86.863
1499.90	26.650	1.5	50	200	8.238	0.993	55.972	26.606	4.9098	1.5	91.473
1799.88	31.980	1.8	60	200	9.878	0.995	55.937	32.025	4.8975	1.8	91.579
2099.86	37.310	2.1	70	199.9	11.485	0.996	55.891	37.275	4.884	2.1	91.557
2399.84	42.640	2.4	80	200	13.147	0.997	55.842	42.693	4.8696	2.4	91.388
2999.80	53.300	3	100	200	16.458	0.998	55.728	53.343	4.8493	3	90.936

