

TABLE 4.—Trials of a 500 K.W. Parsons Turbo-Alternator at the Works of the Cambridge Electric Supply Company in January, 1901. Turbine in operation one year. Trials conducted by Prof. Ewing.

Number of Test.	R. P. M.	Pressure at Stop Valve, lbs. per sq. in. Gauge.	Vacuum in Turbine Cylinder. Inches of Mercury.	Electric Output. K.W.	CONSUMPTION OF STEAM.			Superheat. F.	REMARKS.
					Lbs. per Hour.	Lbs. per K.W. per Hour.	Lbs. per K.W. per Hour.		
1	2670	148	25.7	518.0	12,970	25.0			Trials 1 to 5 Barometer 29.93". " A and B " " 29.99". Turbine driving its own air and circulating pump. In test by makers, when new, machine showed load 526.4 K.W. Consumption, 24 lbs. steam per K.W. hour. Conditions of steam pressure and vacuum about same as in tests at Cambridge.
2	2741	145	25.4	586.0	14,320	24.4			
3	2630	151	27.2	273.5	7,730	28.3			
4	2590	151	27.8	160.5	5,320	33.1			
5	2580	121	28.1	0	1,850	—			
A	2880	145	25.1	535.0	13,350	25.0			
B	2800	150	26.2	300.0	8,270	27.6			

TABLE 5.—Trials of a 1000 K.W. Parsons Turbo-Alternator, for Elberfeld Corporation, at the makers' works, in January 1900. Trials conducted by W. H. Lindley, Prof. Schroter, and Prof. Weber.

II.	129	28.2	1190.1	23,067	19.43	18.4			For full particulars of these exhaustive trials see Revue de Mécanique, November, 1900.
I.	134	28.5	994.8	20,024	20.15	20.0			
III.	139	28.4	745.3	165,924	22.31	14.4			
IV.	132	28.5	498.7	125,180	25.20	52.5			
V.	129	28.5	246.5	83,028	33.76	30.6			
VI.	132	28.7	0	40,568	—	24.0			No load alternator excited.
VII.	134	29.0	0	26,026	—	24.3			No load without excitation.