

Current Carrying Capacity for Graphite Electrode

Nominal Diameter(mm)	Regular Power		High Power		Ultra High Power	
	Current Load (A)	Current Density (A/cm2)	Current Load (A)	Current Density (A/cm2)	Current Load (A)	Current Density (A/cm2)
200	5000-6900	15-21	5500-9000	18-25	————	————
225	6100-8600	15-21	6500-10000	18-25	————	————
250	7000 ~ 10000	14-20	8000 ~ 13000	18-25	————	————
300	10000 ~ 13000	14-18	13000 ~ 17400	17-24	15000 ~ 22000	20-30
350	13500 ~ 18000	14-18	17400 ~ 24000	17-24	20000 ~ 30000	20-30
400	18000 ~ 23500	14-18	21000 ~ 31000	16-24	25000 ~ 40000	19-30
450	22000 ~ 27000	13-17	25000 ~ 40000	15-24	32000 ~ 45000	19-27
500	25000 ~ 32000	13-16	30000 ~ 48000	15-24	38000 ~ 55000	18-27
550	32000 ~ 40000	13-16	37000 ~ 57000	15-23	42000 ~ 66000	17-26
600	38000 ~ 47000	13-16	44000 ~ 67000	15-23	49000 ~ 88000	17-26
700	48000 ~ 59000	12-15	59620 ~ 83600	13-18	70000-110000	17-24