Parameters for Oxygen Production

The reaction is

Therefore, to produce 1 mol of , we need to move of electrons through the circuit and this is of charge. With a current of , we move of charge per minute. Therefore, we produce,

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It is extremely difficult to conduct any electrolytic operation with such a high current. We would need huge electrodes because whatever the nature of the electrode used, the current is highly dependent on the surface of the electrode. The upper limit is of the order of .