

LED Drivers — MCB Loading Chart

Maximum number of drivers per circuit breaker · 230V AC, simultaneous switch-on



		TYPE B MCB				TYPE C MCB			
Product Code	Power	B6	B10	B16	B32	C6	C10	C16	C32
NON-DIMMABLE — LEDD Series									
LEDD-IP1224	12W	2	4	6	12	3	6	10	21
LEDD-IP2024	20W	2	4	6	12	3	6	10	21
LEDD-IP3024	30W	2	4	6	12	3	6	10	21
LEDD-IP4524	45W	1	2	4	8	2	4	6	13
LEDD-IP6024	60W	1	2	4	8	2	4	6	13
LEDD-IP10024	100W	1	1	2	5	1	3	4	9
LEDD-IP15024	150W	1	2	3	6	1	3	5	10
LEDD-IP20024	200W	1	1	2	5	1	2	4	8
LEDD-IP24024	240W	—	1	2	4	1	2	3	7
LEDD-IP35024	350W	—	1	2	4	1	2	3	7
MAINS DIMMABLE (TRIAC) — DIMD Series									
DIMD-2524	25W	2	4	6	12	3	6	10	21
DIMD-5024	50W	1	2	4	8	2	4	6	13
DIMD-7524	75W	1	1	2	5	1	3	4	9
DIMD-IP10024	100W	1	1	2	5	1	3	4	9
DIMD-IP15024	150W	1	2	3	6	1	3	5	10
DIMD-IP20024	200W	1	1	2	5	1	2	4	8
DIMD-IP30024	300W	—	1	2	4	1	2	3	7
DALI-2 & PUSH DIM — DIMDA2P Series									
DIMDA2P-3024	30W	2	4	6	12	3	6	10	21
DIMDA2P-6024	60W	1	2	4	8	2	4	6	13
DIMDA2P-IP10024	100W	2	3	6	12	3	6	10	20
DIMDA2P-IP20024	200W	1	3	5	10	3	5	8	17
DIMDA2P-IP30024	300W	2	4	6	13	3	5	9	18

How to use this chart. The values show the maximum number of drivers that may be energised together on one MCB without nuisance tripping from switch-on inrush. **Mixing driver sizes:** divide the quantity of each model by its chart value and add the fractions — the total must not exceed 1. Example on a B10: four 20W drivers ($4 \div 4 = 1.0$) plus one 60W ($1 \div 2 = 0.5$) totals 1.5 — too much; use a C10 ($4 \div 6 + 1 \div 4 = 0.92 \checkmark$). Where more drivers are required, split across circuits, select a C-type MCB, or stagger switch-on.

Method. LED drivers draw a brief inrush surge at switch-on as the input capacitors charge; on a shared switch these surges are simultaneous and additive. Values are calculated from the magnetic trip characteristics of BS EN 60898 MCBs (Type B: $3-5 \times I_n$, Type C: $5-10 \times I_n$), and are additionally limited so the steady running load stays within 80% of the MCB rating. "—" = not recommended.

Note. Figures are for guidance. For critical installations, confirm the installation design with a qualified electrician. RCD/RCBO selection is a separate consideration (earth-leakage accumulation).