

CLM3820 45A -AS Series Device

Description

Current Limiting Module (CLM) is a chip type surface mountable device that can protect against both overcurrent and overcharging. It comprises a fuse element to ensure stable operation under normal electrical current and to cut off the current when overcurrent occurs. It also comprises a resistive heating element that could be used in combination with a voltage detecting means, such as IC and FET. When overvoltage is detected, the heating element is electrically excited to generate heat to blow the fuse element to achieve overvoltage protection.



Features

- Halogen-free
- Overcharging protection
- Overcurrent protection
- Surface mountable
- Fast response time

Application



- Self Balancing
- E-Bike
- Power Tool
- Automotive applications
- Energy Storage systems
- Drone

Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
	E331807		IEC 61249-2-21:2003
	TA 50428400		

RoHS Directive: Compliance (This product complies with RoHS exemption requirements, since the high melting temperature solder and electronic ceramic parts include Lead.)

Electrical Specifications

Part Number	I _{rated} (A)	Cells in series	V _{max} (V _{DC})	I _{break} (A)	V _{OP} (V)	Resistance		Agency Approval	
						R _{heater} (Ω)	R _{fuse} (mΩ)		
CLM3820P1245-AS	45	3	80	120	9.8 ~ 13.5	1.9 ~ 3.4	0.4 ~ 2.0	✓	✓
CLM3820P1445-AS	45	4	80	120	13.0 ~ 18.4	3.4 ~ 6.0	0.4 ~ 2.0	✓	✓
CLM3820P2045-AS	45	5	80	120	16.7 ~ 23.5	5.6 ~ 9.9	0.4 ~ 2.0	✓	✓
CLM3820P3045-AS	45	6~7	80	120	22.3 ~ 31.5	10.0 ~ 17.7	0.4 ~ 2.0	✓	✓
CLM3820P4045-AS	45	9~10	80	120	33.0 ~ 46.9	22.0 ~ 38.7	0.4 ~ 2.0	✓	✓
CLM3820P5045-AS	45	12~14	80	120	43.7 ~ 62.0	38.5 ~ 68.0	0.4 ~ 2.0	✓	✓