

## CLM2213 30A -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
- Surface mountable
- Overcharging protection
- Fast response time
- Overcurrent protection

### Application



- Self Balancing
- Automotive applications
- E-Bike
- Energy Storage systems
- Power Tool
- 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 <sub>rated</sub> (A)	Cells in series	V <sub>max</sub> (V <sub>DC</sub> )	I <sub>break</sub> (A)	V <sub>OP</sub> (V)	Resistance		Agency Approval	
						R <sub>heater</sub> (Ω)	R <sub>fuse</sub> (mΩ)		
CLM2213P1230-AS	30	3	62	80	9.9~13.5	4.5 ~ 7.3	0.5 ~ 2.5	✓	✓
CLM2213P1430-AS	30	4	62	80	13.4 ~ 18.4	8.4 ~ 13.3	0.5 ~ 2.5	✓	✓
CLM2213P2030-AS	30	5	62	80	17.1 ~ 23.5	13.8 ~ 21.7	0.5 ~ 2.5	✓	✓
CLM2213P3030-AS	30	7	62	80	23.0 ~ 31.5	24.6 ~ 39.3	0.5 ~ 2.5	✓	✓
CLM2213P4030-AS	30	9~10	62	80	34.2 ~ 46.9	64.0 ~ 87.0	0.5 ~ 2.5	✓	✓
CLM2213P5030-AS	30	12~14	62	80	45.2 ~ 62.0	130.0 ~ 152.0	0.5 ~ 2.5	✓	✓