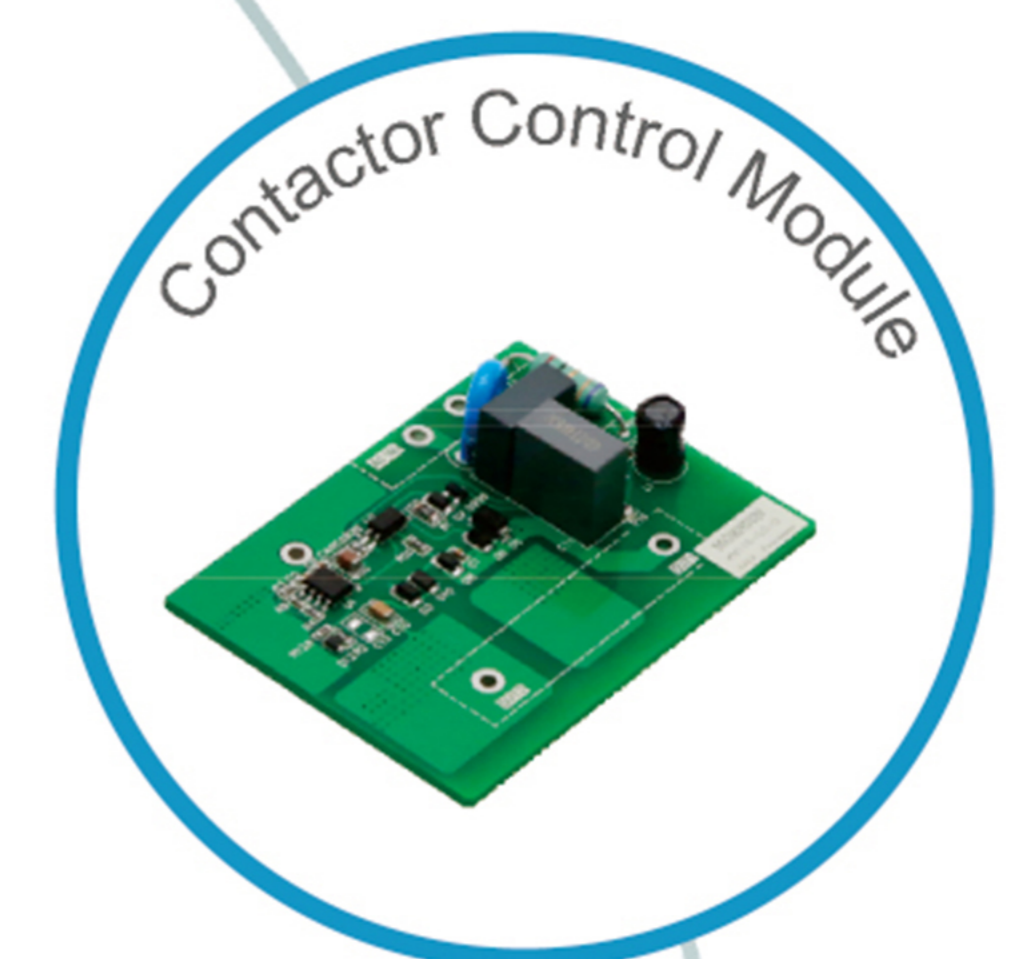
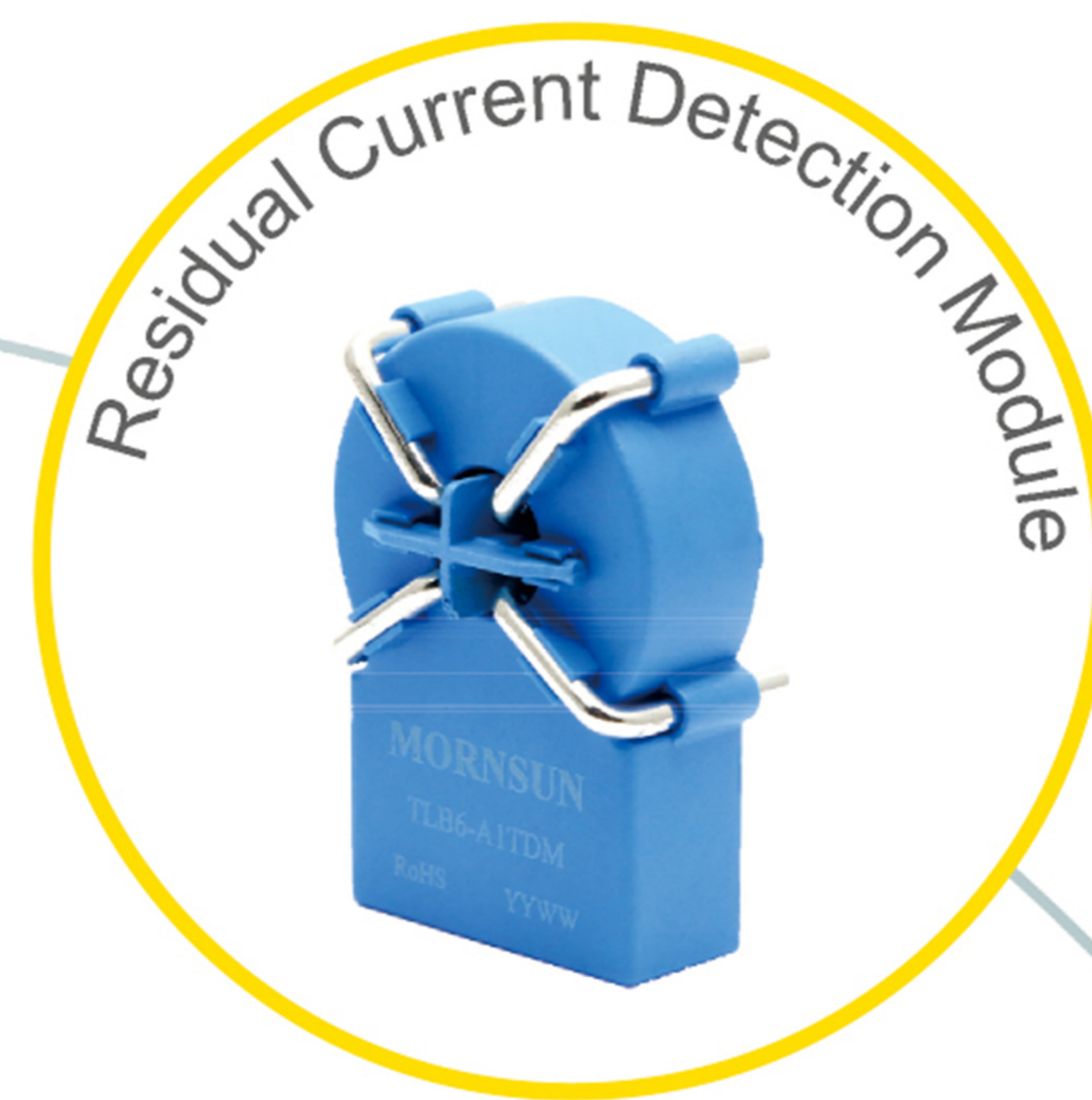
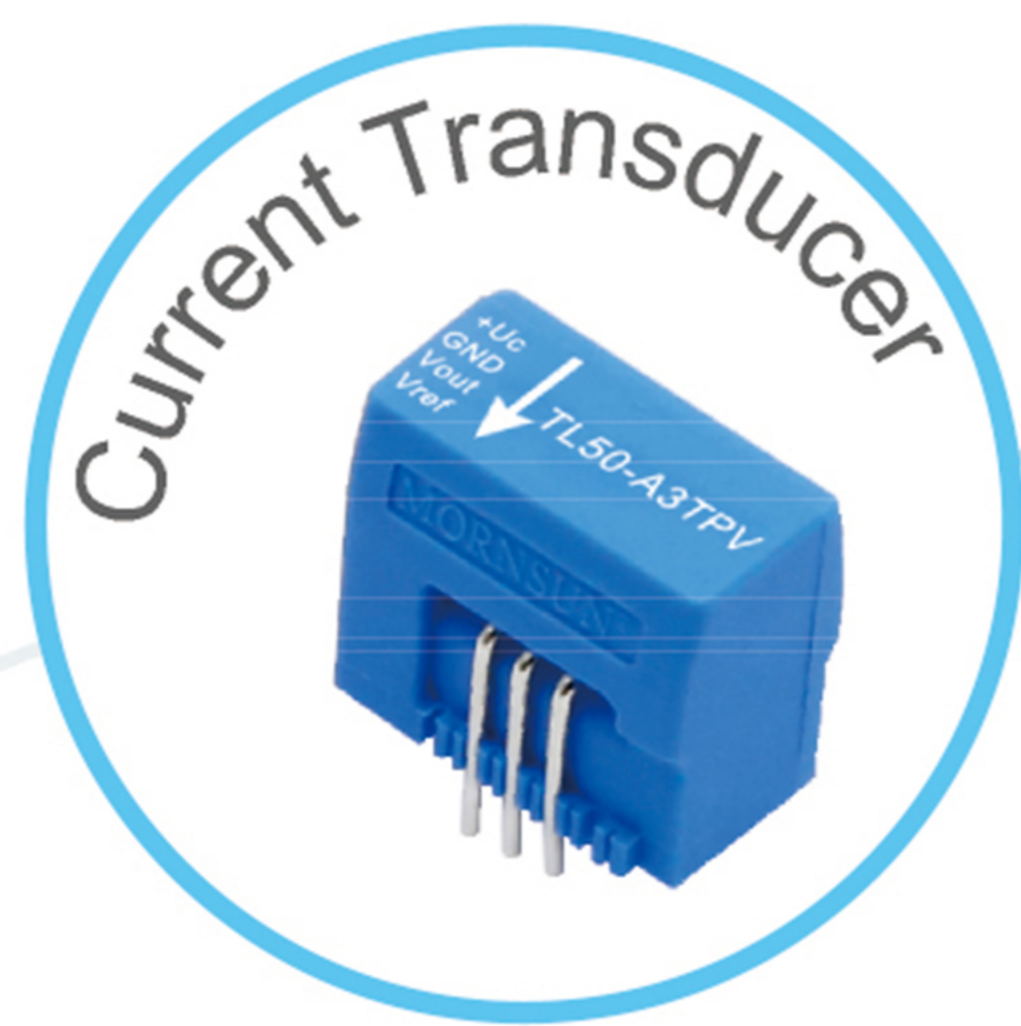
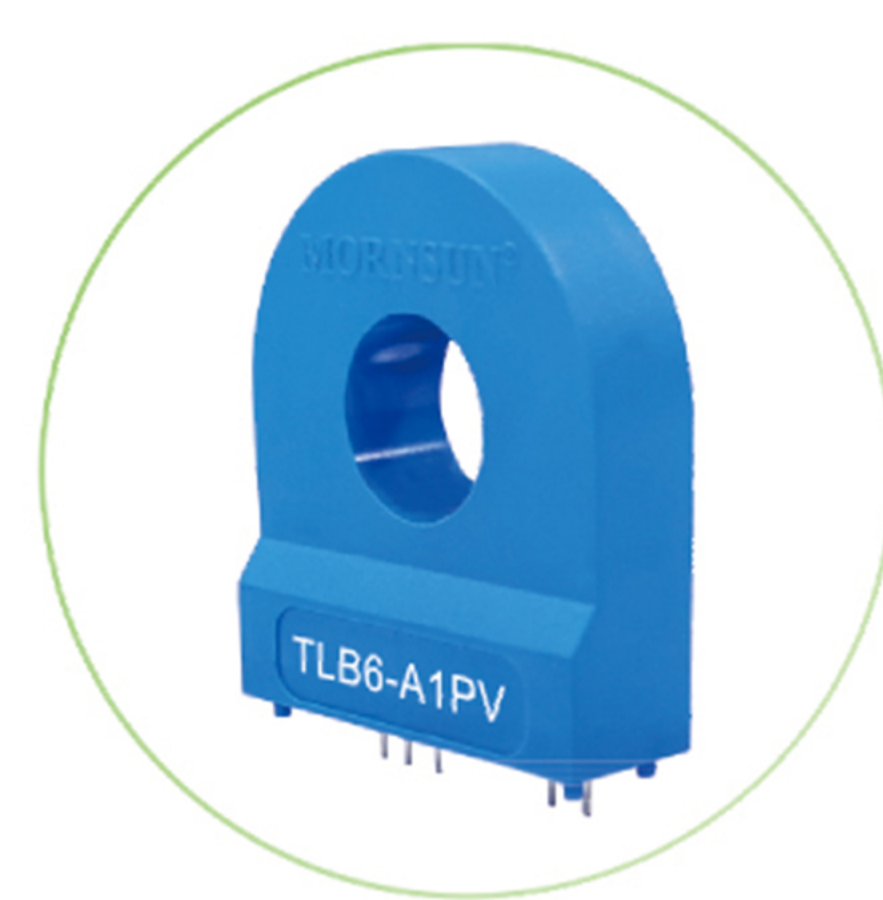


Smart Control Modules Selection Guide





For EV Charging Station



For EV Charging Station (Three-phase products)



For Low Voltage Equipment

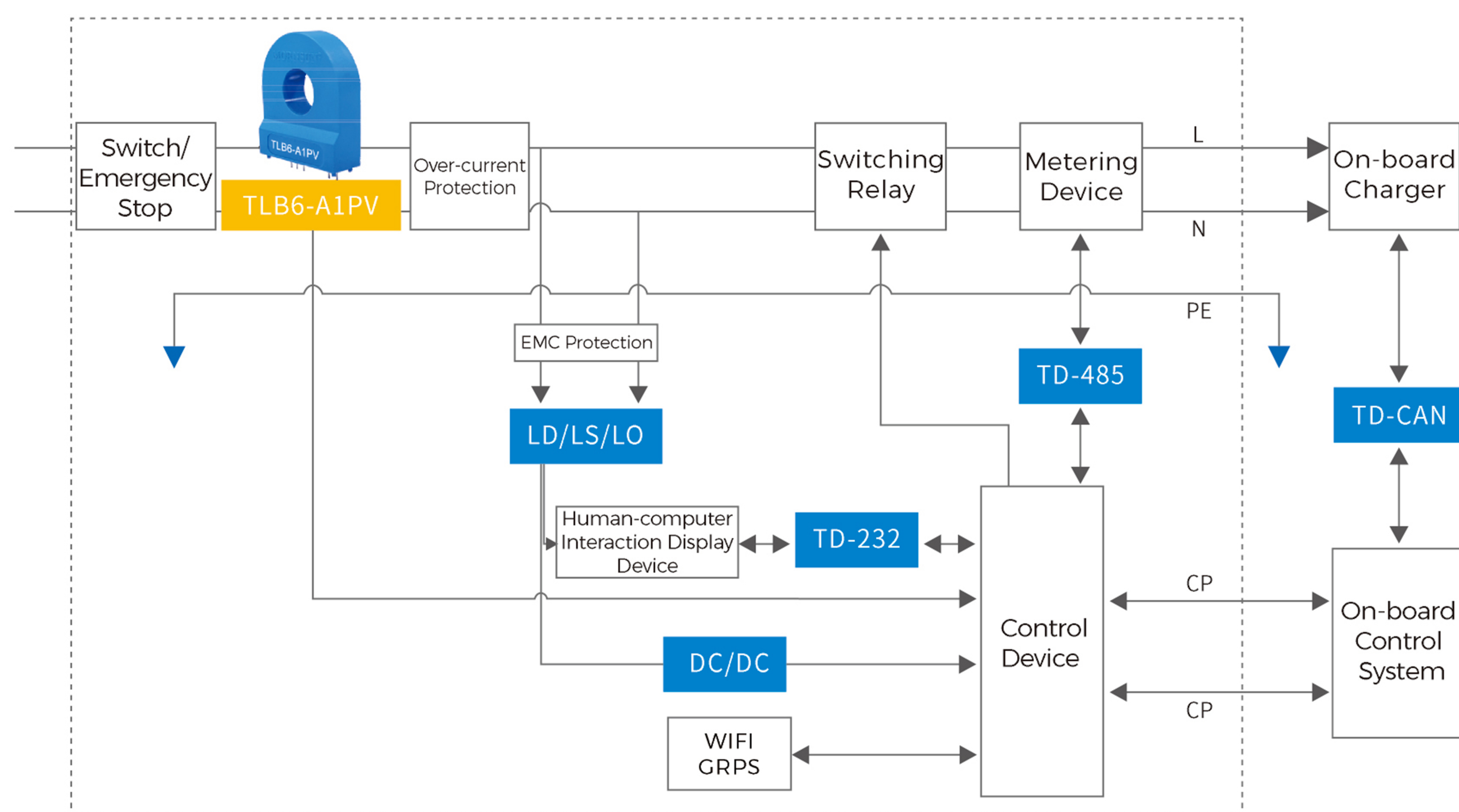
Features

- Meet IEC 62752, IEC 62955 standards
- Proprietary IC, dependable delivery
- Autonomous magnetic recovery technology, surge current capability up to 5,000 A
- High response speed: 6mA smooth DC residual current detection, excellent accuracy
- Strong resistance to electromagnetic interference, suitable for harsh environments
- Test equipment or simple test boards available for performance verification

Setting higher standards based on existing standards

Type-B residual current detection, high reliability

Applications



Typical Application: EV Charging Station

Selection Guide

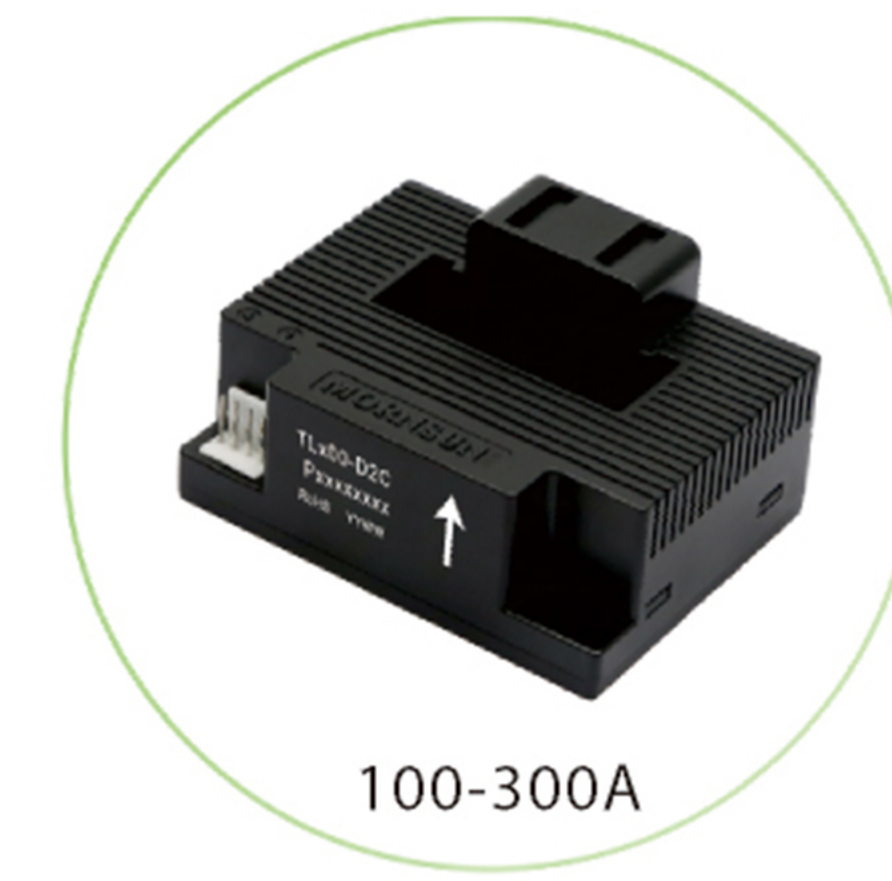
Product Type	Part No.	Input Voltage Range	Rated Residual Current	Dimension (mm)(LxWxH)	Package	Standards	Datasheet
Residual Current Detection Modules for EV Charging Station	TLB6-A1PV	4.85-5.15VDC	DC:6mA,AC:30mA	13.20 x 40.00 x 45.00	PCB mounting	IEC 62955, IEC 62752	
	TLB6-A1PD		DC:6mA,AC:30mA	13.20 x 40.00 x 45.00	PCB mounting	IEC 62955, IEC 62752	
	TLB6-A1PC		DC:6mA,AC:30mA	13.20 x 40.00 x 45.00	Wiring type	IEC 62955, IEC 62752	
	TLB6-A1SVE		DC:6mA,AC:30mA	26.60 x 28.30 x 23.60	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB6-A1PCE		DC:6mA,AC:30mA	51.00 x 45.70 x 20.90	Wiring type	IEC 62955, IEC 62752	
	TLB6-A1PVE		DC:6mA,AC:20mA	31.50 x 38.50 x 13.50	PCB mounting	IEC 62955, IEC 62752	
Residual Current Detection Modules for EV Charging Station (three-phase products)	TLB6-A1TDM	4.85-5.15VDC	DC:6mA,AC:30mA	34.00 x 49.00 x 23.00	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB6-A1TDMK		DC:6mA,AC:30mA	34.00 x 49.00 x 23.00	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB6-A1PDM		DC:6mA,AC:30mA	34.00 x 49.00 x 23.00	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB6-A1PDMK		DC:6mA,AC:30mA	34.00 x 49.00 x 23.00	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB6-A1TDF		DC:6mA,AC:20mA	34.45 x 49.05 x 21.10	PCB mounting with Bus-Bar	IEC 62955, IEC 62752	
	TLB30-A2TDM		DC:6mA,AC:6mA	34.00 x 49.00 x 23.00	PCB mounting with Bus-Bar	UL2231	
TLB56-A2TDM	DC:6mA,AC:20mA						
Residual Current Detection Modules for PV	TLB100-G1PV	4.85-5.15VDC	100mA	26.60 x 28.30 x 23.70	PCB mounting	UL1741	
	TLB300-G1PV		300mA	26.60 x 28.30 x 23.70	PCB mounting	UL1741	
Residual Current Detection Modules for Low Voltage Equipment	TLB30-D3	220V (single-phase) 380V (three-phase)	30mA	36.66 x 28.46 x 22.30	On-board type	GBT22794	
	TLB100-D3		100mA	36.66 x 28.46 x 22.30	On-board type	GBT22794	
	TLB300-D3		300mA	36.66 x 28.46 x 22.30	On-board type	GBT22794	



* Small size with compact design, multiple packages and primary side forms to meet different board layout and installation requirements.



PCB Mounting Current Transducer



Panel Mounting Current Transducer



Features



High accuracy: 0.3%-0.5%



Low temperature drift: 40ppm



Linearity: $\pm 0.05\%$ / $\pm 0.1\%$



High-frequency bandwidth 200kHz



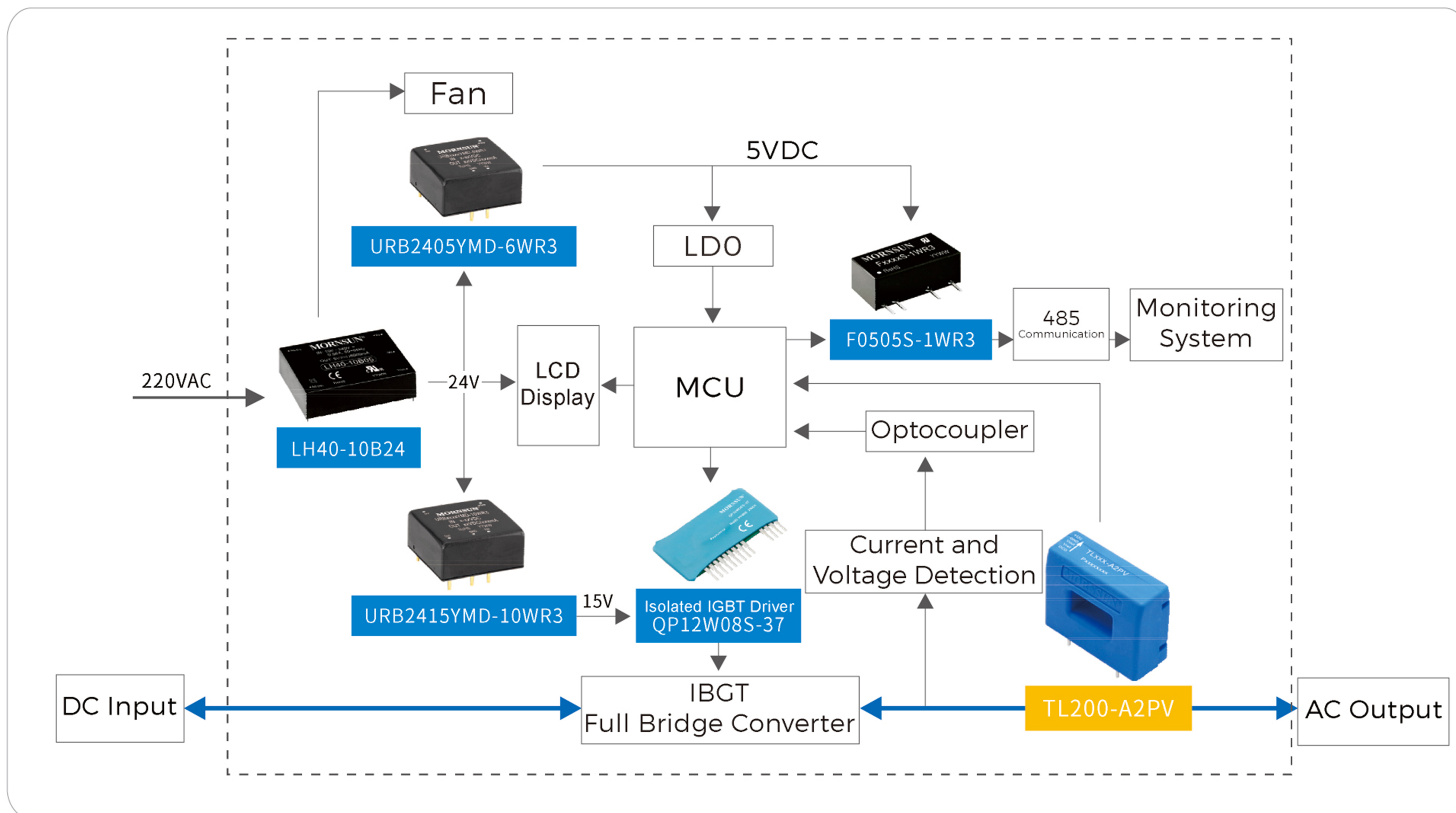
Optimized response time 2 μ s



Complete product range of 6-500A, wide selections

Applications

The Hall closed-loop current transducer TL series can measure AC, DC current up to 500A, pulse current and various irregular waveform current with high accuracy under the condition of primary and secondary side isolation, and the frequency response is up to 200kHz. They're widely used in new energy, industrial control, welding, and power supply fields.



Typical Application: Photovoltaic Inverter

Selection Guide

Part No.	Input Voltage (VDC)	Primary RMS Current (A)	Primary Current Measurement Range (A)	Output Voltage Range	Accuracy	Turns Ratio	Dimension (mm)(LxWxH)	Package	Datasheet
TL6-A3TPV	5	6	-20+20	1.875-3.125V	$\pm 0.45\%$	1:1600	22.00 x 13.40 x 19.50	PCB mounting	
TL15-A3TPV		15	-51+51			1:1600			
TL25-A3TPV		25	-85+85			1:1600			
TL50-A3TPV		50	-150+150			1:1600			
TL100-A2PV	5	100	-300+300	1.875-3.125V	$\pm 0.5\%$	1:1800	48.40 x 19.04 x 37.75	PCB mounting	
TL150-A2PV		150	-450+450			1:1800			
TL200-A2PV		200	-500+500			1:1800			
TL100-A2TPV		100	-300+300			1:1800			
TL150-A2TPV		150	-300+300			1:1800			
TL200-A2TPV		200	-300+300			1:1800			
TL100-D1C	$\pm 12/\pm 15$	100	-150+150	50mA	0.5%	1:2000	68.00 x 57.70 x 25.70	Panel mounting	
TL200-D1C		200	-300+300	100mA		1:2000			
TL300-D1C		300	-500+500	150mA		1:2000			
TL100P-D1C		100	-150+150	50mA		1:2000			
TL200P-D1C		200	-300+300	100mA		1:2000			
TL300P-D1C		300	-500+500	150mA		1:2000			
TL100-D2C	$\pm 12/\pm 15$	100	-150+150	100mA	$\pm 0.3\%$	1:1000	72.00 x 55.00 x 37.00	Panel mounting	
TL300-D2C		300	-450+450			1:3000			
TL300-D2C-SZ		300	-450+450			1:3000			
TL500-D1C	$\pm 15-24$	500	-800+800	100mA	$\pm 0.6\%$	1:5000	89.00 x 70.00 x 38.58	Panel mounting	
TL500P-D1C		500	-800+800			1:5000			
TLA50-S	$\pm 12/\pm 15$	50	-100+100	25mA	$\pm 0.5\%$	1:2000	66.00 x 57.30 x 55.10	Panel mounting	
TLA100-S		100	-200+200	50mA		1:2000			
TLA200-S		200	-300+300	100mA		1:2000			

Features

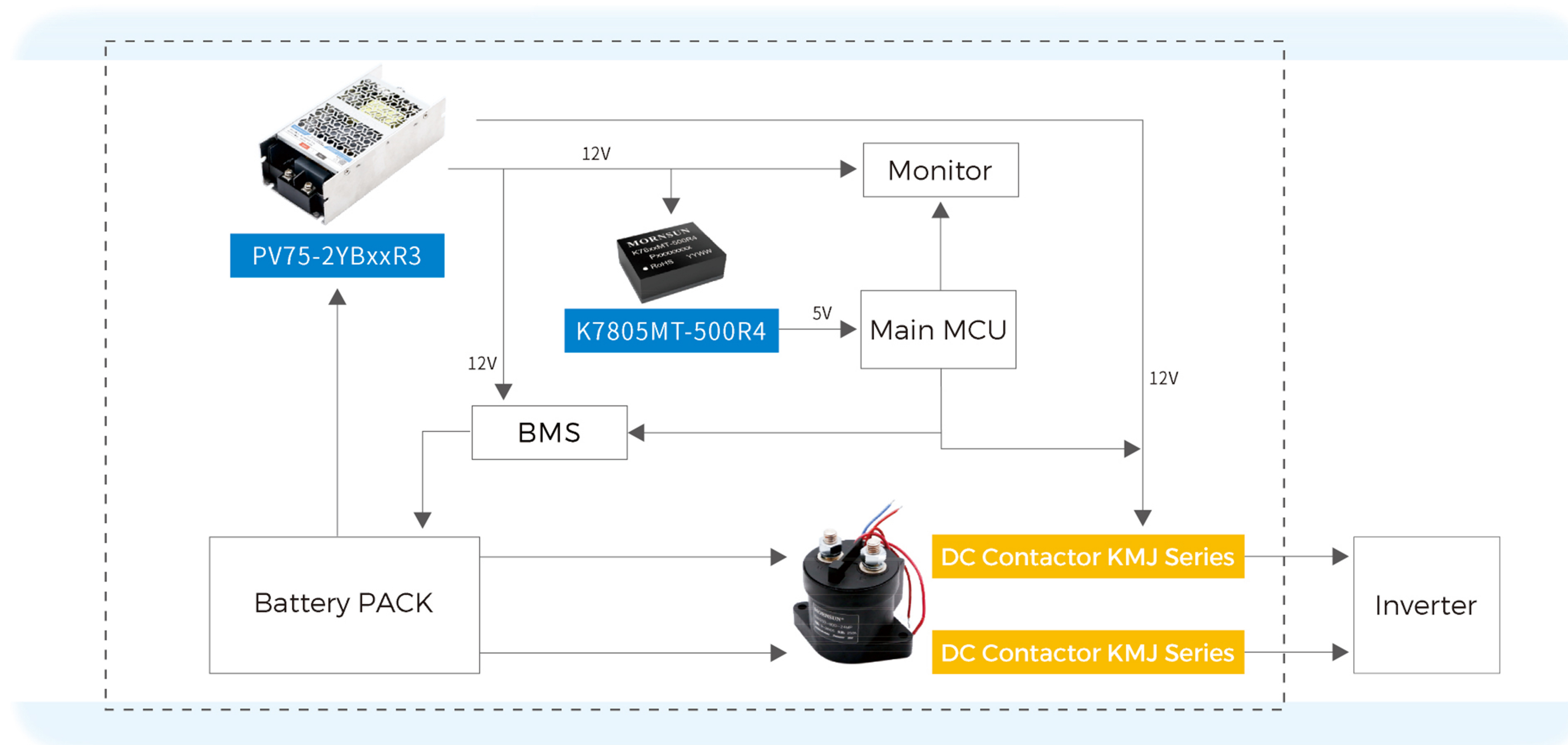
- High reliability: epoxy resin sealed to prevent contact oxidation
- Safe and energy saving: low holding power dissipation inhibits reverse electromotive force
- Increased electrical life: built-in inert gas and magnetic blowout
- Equipped with an arc-control module that greatly increases contact life
- High standard: IP66 dustproof and waterproof rating comply with GB14048.4



Low Voltage DC Contactor High Voltage DC Contactor

Applications

The DC Contactor KMJ series is widely used in the field of electric car, electric forklift, EV charging station, PV, energy storage control systems, etc. The product is equipped with an arc-control module that effectively extinguishes arcs, reduces contact damage and significantly improves the electrical life and reliability of the contactors.



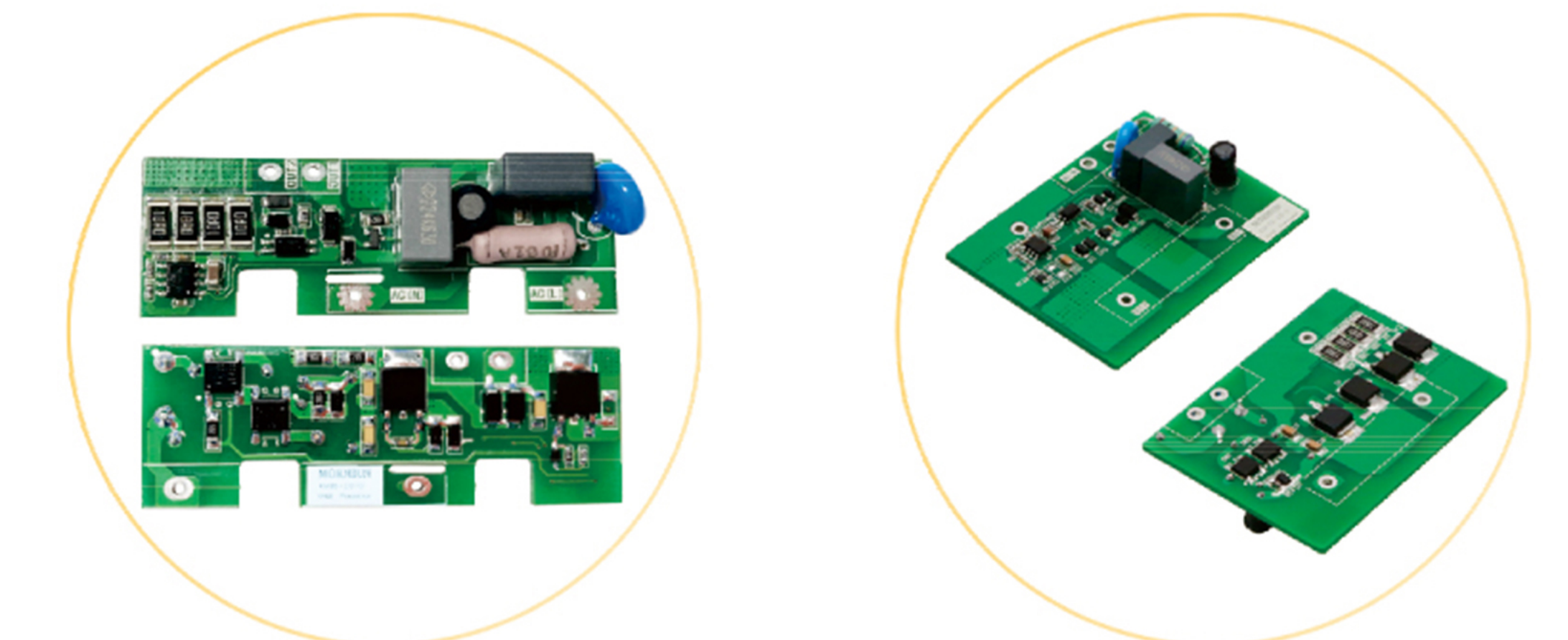
Typical Application: PACK High Voltage Box

Selection Guide

Product Type	Part No.	Rated Current	Rated Load Voltage	Coil Operating Voltage	Dimension (mm)(LxWxH)	Package	Safety Regulations	Datasheet
Low Voltage DC Contactor	KMJ200-24-12M	200A	24VDC	12VDC	58.10 x 57.00 x 92.70	Wiring type	RoHS CCC	
	KMJ200-24-24M	200A	24VDC	24VDC				
	KMJ200-48-48M	200A	48VDC	48VDC				
	KMJ200-24-24MP	200A	24VDC	9-36VDC				
High Voltage DC Contactor	KMJ250-900-24MP	250A	1000VDC	9-36VDC	80.50 x 66.00 x 72.30	Wiring type	RoHS CCC	

Features

- High efficiency and energy saving: quick response, 3600 times/H of operating frequency
- AC and DC dual-use, wide input voltage range, strong anti-tripping capability
- Complete protection: turn off quickly, low temperature rise, effectively increase the contact life of the contactor
- High reliability: constant current control, built-in temperature compensation circuit to ensure suction
- Built-in remote control Pin

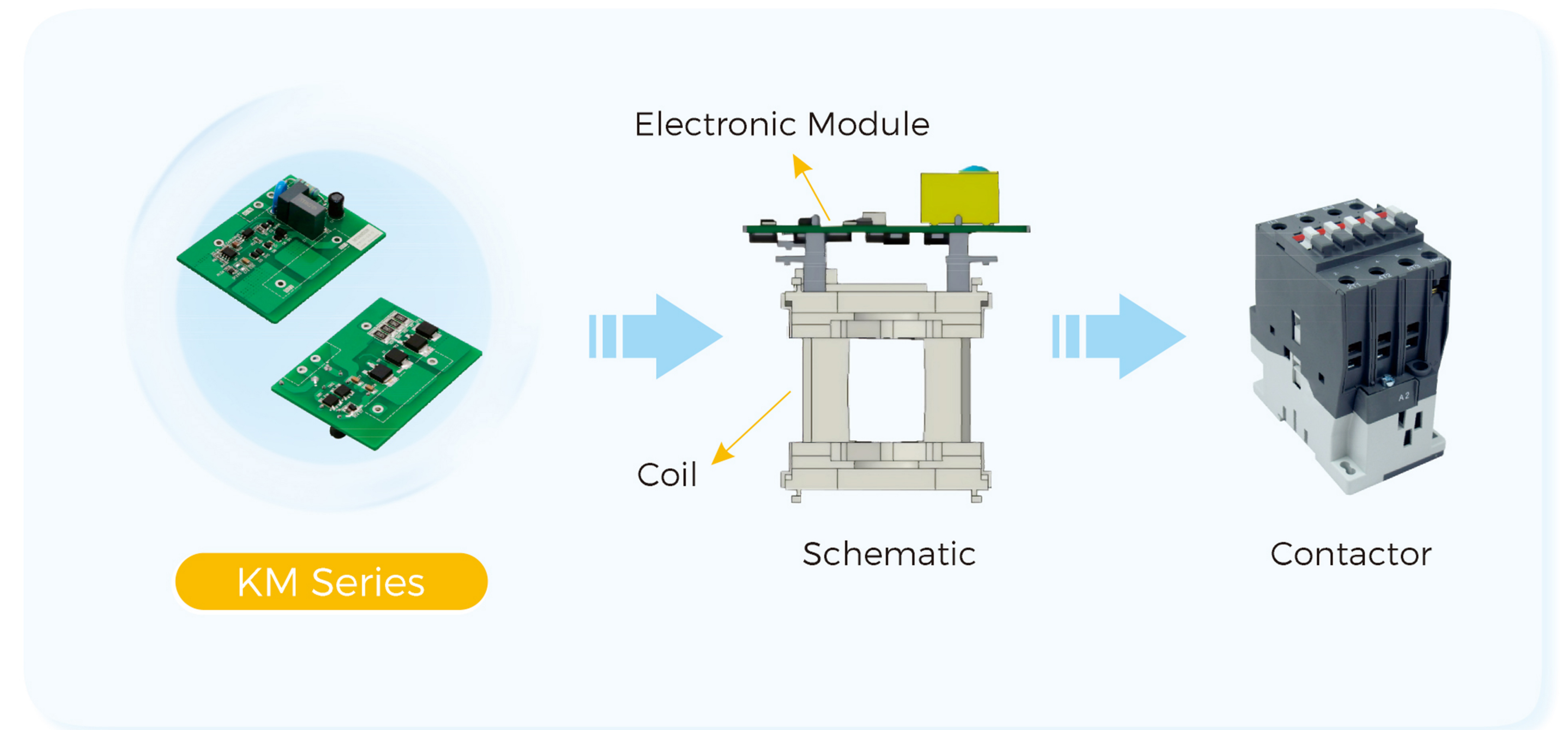


KM95-C0-O

KM115-C0-O

Applications

They can be widely used in energy-saving modification of various contactors, new generation of wide voltage input contactors and so on.



Selection Guide

Product Type	Part No.	Apparent Power	Control Voltage Range	Rated Operational Current	No-load Switch Frequency	Dimension (mm)(LxWxH)	Safety Regulations	Datasheet
Contactor Control Module	KM95-C0-O	6.5VA	90-275 VAC/VDC	95A	3600 times/h	69.00 x 22.90 x 18.50	RoHS	
Contactor Control Module	KM115-C0-O	6.5VA	75-305 VAC/VDC	115A	3600 times/h	67.00 x 50.40 x 18.50	RoHS	

Established: 1998



Headquarters in Guangzhou

R&D Engineers: 700+



R&D Center in Guangzhou

70% Automation in Production



Manufacturing Center in Huaihua



Complete Service
FAE technical support
Quick response



Strong R&D Capability
1200+ IPRs & Patents
6 R&D centers



Fast Delivery
48+ SMT production lines
80,000 m² factory area



mornsun website

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