



**WALTER
ELECTRONIC**

COMPONENTS CATALOG
Suzhou Walter Electronic Co.Ltd.

PRODUCT OVERVIEW

- Surface Mount Fuses
- Subminiature Fuses
- Power Fuses
- Fuse Holders
- Current Sensing Resistors
- Thin Film Resistors
- Shunt Resistors
- Jumper
- SMD NTC
- Residual Current Sensors
- Current Sensors



About Walter



Walter Electronic is a core member of the JW Group. Backed by the group’s robust resources, we have established a strong and steady operational presence in the global market. Since establishing our manufacturing facility in Wujiang, Jiangsu in 2000, our products have been distributed not only domestically but also worldwide.

Over the years, we have continuously driven technical innovation and product evolution. From developing current sensing resistors with advanced Japanese technology in 2006, to launching power fuses for solar energy, EVs, and industrial power systems in 2015, and introducing current sensors for the new energy market in 2024, Walter Electronic always stays ahead of market demands.

2025 marked a significant milestone as Juneway Electronics successfully listed on the Shenzhen Stock Exchange (ChiNext). In the same year, through the strategic acquisition of a Japanese manufacturer, we officially entered the thin-film resistor and SMD thermistor markets, further completing our comprehensive portfolio of passive components for our global customers.



Product Development

Walter possesses advanced R&D capability and holds all intellectual property rights. In an effort to enhance product development capabilities, we recruited professionals in various fields to strengthen Walter’s engineering team.

In recent years, Walter increased interactions and partnerships with reputable industry groups such as jointly developed by leading Japanese resistive manufacturers and cooperation with China’s Electronic Engineering Technology Higher Education Institution Projects.

List of Inspection Items

- Salt spray test
- Digital microscope test
- Isolation test
- Thermal shock
- Soldering heat resistance test
- Temperature raising test
- Environmental test
- Plated-thickness major material analysis

Automated Equipment Production Line

Equipped with over 90% in-house developed automated machinery designed exclusively for CSR and Fuse products, delivering a dual advantage of maximized production efficiency and uncompromising quality control.



Electronic Load Testing Equipment (CHROMA)



3D High Rating Microscope(Keyence)

Planet

Certifications	Factory		
	Suzhou	Jiangmen	Zhuhai
ISO 9001	✓	✓	✓
ISO 14001	✓	✓	
IATF 16949	✓	✓	✓
IECQ QC080000	✓		



Energy Dispersive X-Ray Fluorescence Spectrometer



Cold And Heat Shock Machine

Walter Advantages

Service

- Real-time information response
- Professional product knowledge
- System product design discussions and selection recommendations
- Analysis, communication and feedback on application anomalies

Sales

- Global footprint
- Deep cultivation in various industries
- Systematic distribution agent system
- Complete inventory management to meet customer delivery requirements

Products

- Wide coverage of specifications
- Continuous technology improvement and innovation
- Features that meet customer R&D design trends

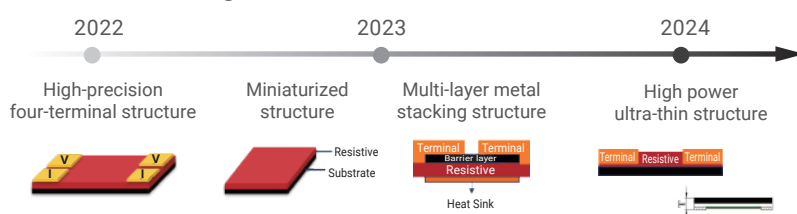


Product Advantages

Professional CSR Manufacturer

- Possessing both Metal Foil and Metal Strip production capabilities

Advance Technologies



Continuous Improvement



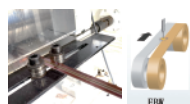
Full Spec Coverage

- Size: 01005~8518
- Resistance range : 0.2mΩ~600mΩ



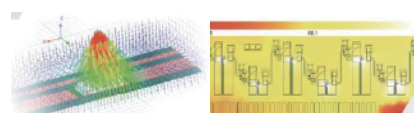
EBW Equipment

- Proprietary electron beam welding equipment to ensure the quality of shunt resistors



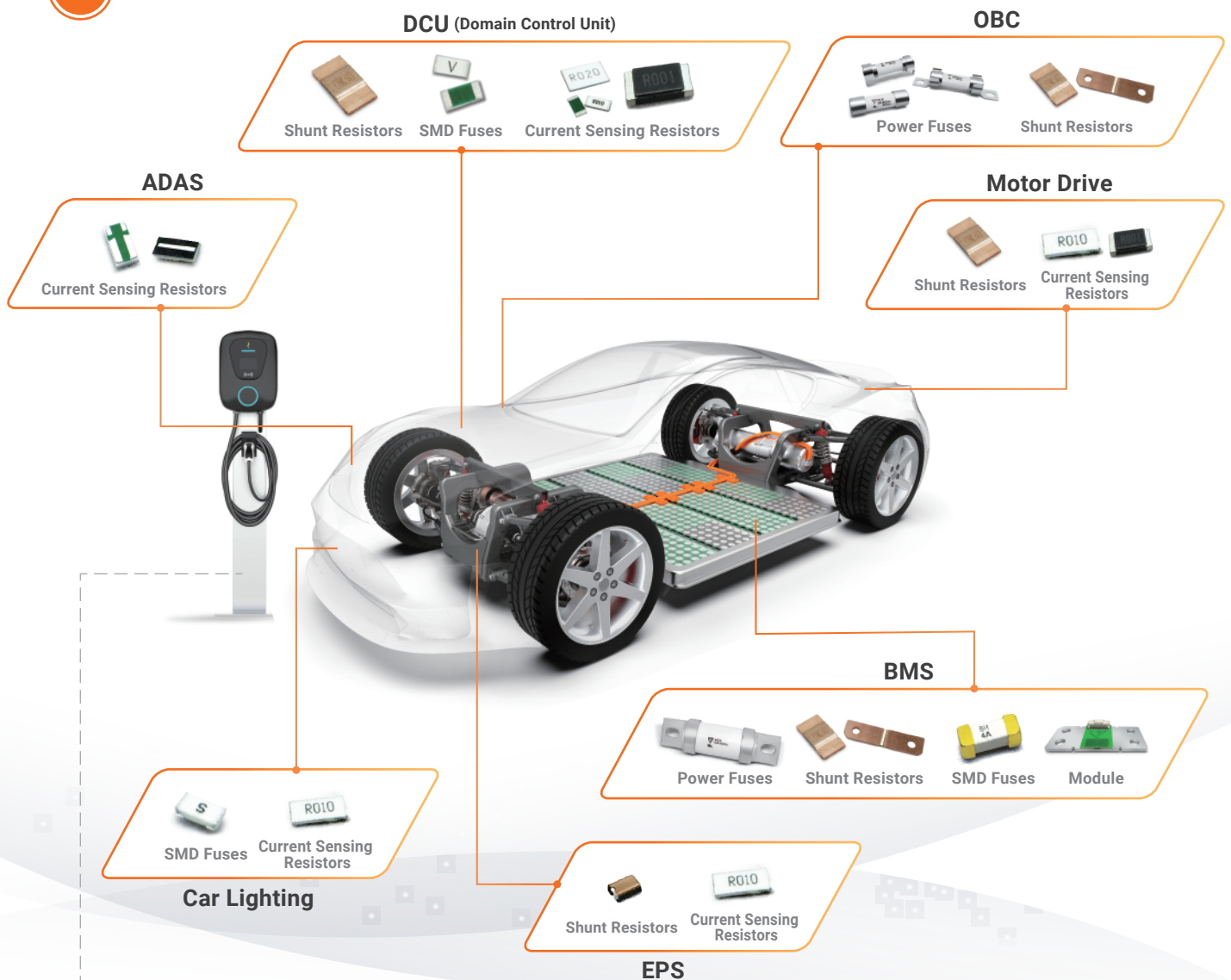
Product Application Analogy Analysis

- Assist customers to improve design through analogy analysis of product application heat distribution

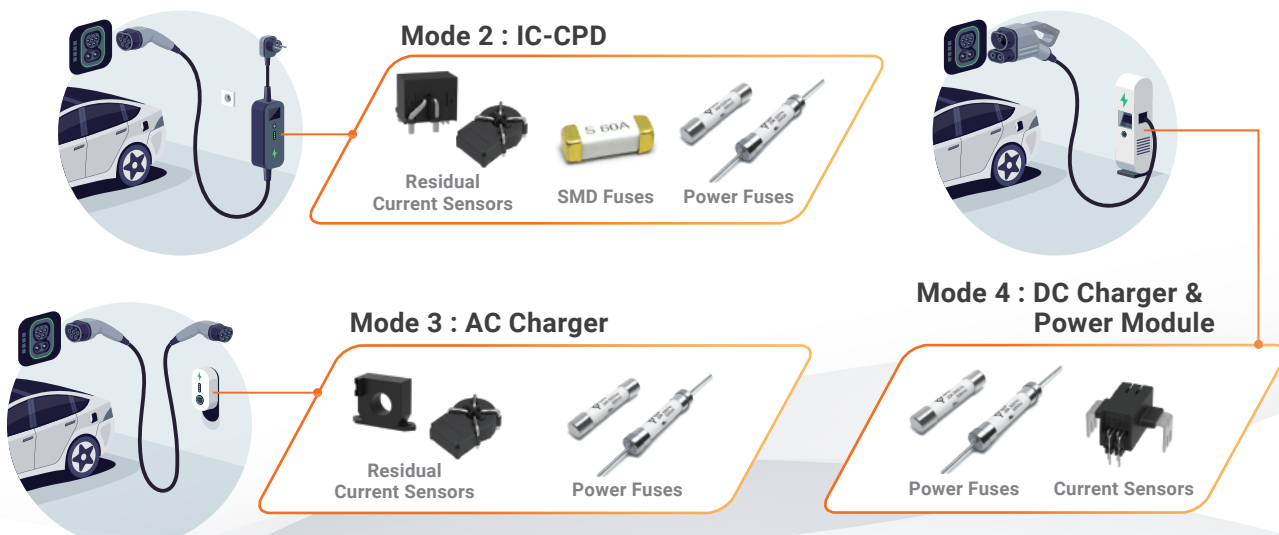




Electric Vehicle



Electric Vehicle Supply Equipment





Solar Energy



PV Combiner Box



Power Fuses

Holders



Photovoltaic

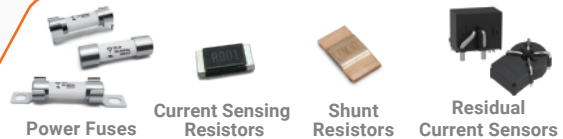


Power Fuses

Residual
Current Sensors



Photovoltaic Inverter PCS

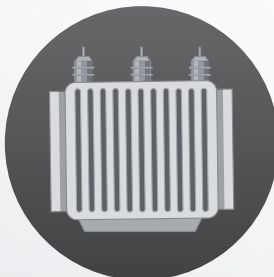


Power Fuses

Current Sensing
Resistors

Shunt
Resistors

Residual
Current Sensors



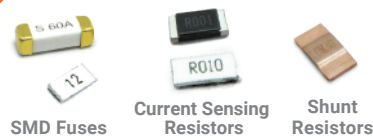
Transformer



Power Grid



Lithium Battery Pack



SMD Fuses

Current Sensing
Resistors

Shunt
Resistors

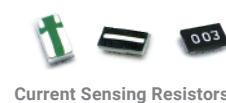
Application



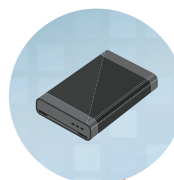
Mobile and Peripheral Devices



Mainboard



Current Sensing Resistors



Battery Pack



Current Sensing Resistors



PD Charger / PD



Dip Fuses

SMD Fuses

Current Sensing Resistors



Wearable Devices

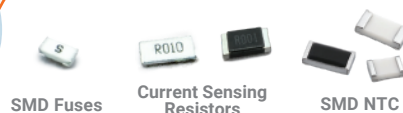


SMD Fuses

Current Sensing Resistors



Power Bank



SMD Fuses

Current Sensing Resistors

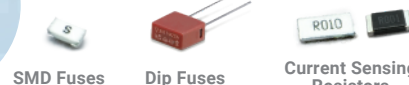
SMD NTC



Power Supply



TV Power Supply



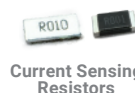
SMD Fuses

Dip Fuses

Current Sensing Resistors



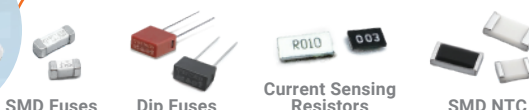
Medical & PC Power Supply



Current Sensing Resistors



Charger & Adaptor



SMD Fuses

Dip Fuses

Current Sensing Resistors

SMD NTC



Home Appliances



Microwave Oven



Robot Vacuum



Air Conditioner Outdoor Unit



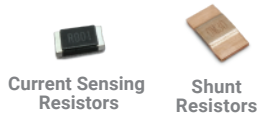
Charger



Battery Pack



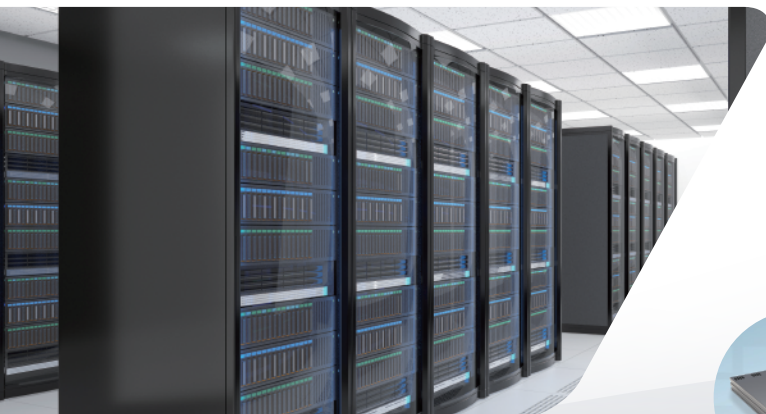
Motor



Power Tools



AI Server



BBU



Power Supply



Server





Humanoid Robot

Power & Battery Management System

Current Detection

Current Sensors



JWDC-HS01



JWDC-XSS1

Current Sensing Resistors



MSH



STE

Shunt Resistors



MSU

Current Protection

SMD Fuses



1206HT



6125T



1032SF



2051F

Temperature Detection

SMD NTC



WET

Motor Drive and Control System

Current Detection

Current Sensing Resistors



STE



MSH



MHTC

Shunt Resistors



MSU

Temperature Detection

SMD NTC



WET

Core Computing and Communication System

Shunt Resistors



MFUA

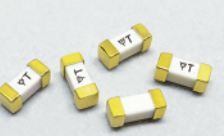
Thin Film Resistors



PSTE

Products

Surface Mount Fuses

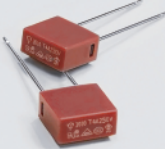
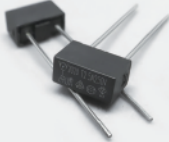
				
Series No.	0402FA	0603F	0603T	1206F
Fuse Size	1.0x0.5mm	1.6x0.8mm	1.6x0.8mm	3.2x1.6mm
Current	1~5A	500mA~6A	1A~6A	375mA~10A
Voltage	32VDC	63/125VDC	32VDC	63/125VDC
Characteristic	Fast Acting Type	Fast Acting Type	Time-Lag Type	Fast Acting Type
Safety Approvals				
				
Series No.	1206T	1206HC	6125SF	6125T
Fuse Size	3.2x1.6mm	3.2x1.6mm	6.1x2.5mm	6.1x2.5mm
Current	1A~10A	12A~40A	1A~20A	0.5A~7A
Voltage	63VDC	35/48VDC	65/125VAC 65/160VDC	125/250VAC 125VDC
Characteristic	Time-Lag Type	High Current Type	Fast Acting Type	Time-Lag Type
Safety Approvals				
				
Series No.	2410LT-g	2410HT	1032SF	1032ST
Fuse Size	6.1x2.5mm	6.4x2.6mm	10.25x3.2mm	10.25x3.2mm
Current	0.5~6.3A	0.5~6.3A	20A~60A	500mA~5A
Voltage	250VAC 125VDC	250VAC	65/250VAC 32/60/72/100VDC	250VAC
Characteristic	Time-Lag Type	Time-Lag Type	Fast Acting Type	Time-Lag Type
Safety Approvals				
				
Series No.	1245HV			
Fuse Size	12x4.5mm			
Current	0.5~6.3A			
Voltage	600VAC 600VDC			
Characteristic	High Voltage			
Safety Approvals				

Products

Surface Mount Fuses

			
Series No.	2050F	2051F	1550HB
Fuse Size	12.5x10x6.8mm	7.7x6x4.6mm	15x5mm
Current	60~125A	40~125A	1~6.3A
Voltage	75/100/125VDC	85/100VDC	277VAC
Characteristic	High Breaking Type	High Breaking Type	Time-Lag Type
Safety Approvals			

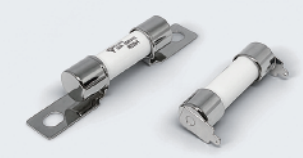
Subminiature Fuses

			
Series No.	2000	2010	2020
Fuse Size	Ø8.5x8mm	8.5x8.5x4mm	8.5x5x4mm
Current	100mA~6.3A	100mA~20A	100mA~6.3A
Voltage	250/300VAC	125/250/300/350/400VAC 250VDC	250/300/400VAC
Characteristic	Time-Lag Type	Time-Lag Type	Time-Lag Type
Safety Approvals			

				
Series No.	WN10	WN20	RN06T / RN06T(N)	RM10
Fuse Size	5x20mm	5x20mm	5x20mm	6X30mm
Current	0.2A~20A	0.5A~20A	0.5A~30A	0.2A~5A
Voltage	600VAC	600VAC/500VDC/400VDC	600VAC/500VDC/400VDC	1000VAC/1000VDC
Interrupt	0.2A~1A 1KA@600VAC 1.6A~20A 10KA@600VAC	0.5A~20A 200A@600VAC 0.5A~20A 300A@500VDC 0.5A~10A 2000A@400VDC	0.5A~30A 200A@600VAC 0.5A~30A 300A@500VDC 0.5A~30A 2000A@400VDC	10KA@1000VAC 10KA@1000VDC
Characteristic	Fast Acting Type	Time Lag Type	Time Lag Type	Fast Acting Type
Safety Approvals	 	 	In Progress	In Progress
				
Series No.	RM07 / RM07(N)	RM05G / RM05(N)G	RM05T / RM05(N)T	RM05F
Fuse Size	6x30mm	6x30mm	6x30mm	6x30mm
Current	0.2A~30A	10A~40A	10A~40A	35A/40A/45A
Voltage	700VAC/700VDC	500VAC/500VDC	500VAC/500VDC	500VAC/500VDC
Interrupt	1500A@700VAC 1500A@700VDC	10A~40A 30KA@500VAC 10A~40A 20KA@500VDC	10A~40A 30KA@500VAC 10A~40A 20KA@500VDC	10A~40A 30KA@500VAC 10A~40A 20KA@500VDC
Characteristic	Fast Acting Type	Fast Acting Type	Time Lag Type	Time Lag Type
Safety Approvals	In Progress	 	 	 
				
Series No.	RM03 / RM03(N)	RL11 / RL11(N)	RL10 / RL10(N)	RL08E
Fuse Size	6x30mm	10x38mm	10x38mm	10x38mm
Current	20A~50A	10A~35A	1A~35A	10A~80A
Voltage	300VAC/300VDC	1100VDC	1000VDC	800VDC
Interrupt	1500A@300VAC 1500A@300VDC	10A~35A 20KA@1100VDC	10A~35A 30KA@1000VDC	10A~50A 20KA@800VDC 80A 1.5KA@800VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals	In Progress	 	 	JASOD622 ISO8820

Products

Power Fuses

				
Series No.	RL07 / RL07(N)	RL06 / RL06(N)	RL05 / RL05(N)	RL05T / RL05T(N)
Fuse Size	10x38mm	10x38mm	10x38mm	10x38mm
Current	1A~40A	1A~60A	1A~60A	1A~60A
Voltage	700VAC/700VDC	600VAC/600VDC	500VAC/500VDC	500VAC/500VDC
Interrupt	1A~40A 20KA@700VAC 1A~40A 20KA@700VDC	1A~50A 50KA@600VAC/VDC 60A 30KA@600VAC/VDC	1A~60A 30KA@500VAC/VDC	1A~60A 30KA@500VAC/VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Time Lag Type
Safety Approvals				
				
Series No.	RL05E	RLM05	RLS02	WL55
Fuse Size	10x38mm	10x32mm	10x25mm	10x55mm
Current	5A~60A	40~80A	80A	2.5A~6A
Voltage	500VDC	500VAC/500VDC	200VDC	1500VDC
Interrupt	10A~60A 20KA@500VDC	20KA@500VACDC	80A 50KA@500VDC	2.5A~6A 10KA@1500VDC 2.5A~6A 20KA@1500VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals	JASOD622 ISO8820	 	In Progress	
				
Series No.	WL62	RJM10S	RH08S	RH07S
Fuse Size	10x85mm	14x39mm	18x45mm	18x45mm
Current	4A~30A	40A~60A	40A~125A	40A~125A
Voltage	1500VDC	1000VDC	800VAC/800VDC	700VAC/700VDC
Interrupt	4A~30A 50KA@1500VDC	40A~60A 50KA@1000VDC	40A~125A 50KA@800VAC 40A~125A 50KA@800VDC	40A~125A 50KA@700VAC 40A~125A 50KA@700VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals		 	In Progress	In Progress

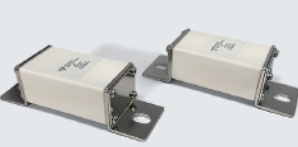
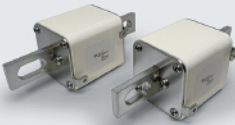
Products

Power Fuses

				
Series No.	RH05S	RHL10S	WH62	WE38
Fuse Size	18X45mm	18X68mm	18x25mm	30x65mm
Current	40A~125A	40A~100A	20A~200A	100A~200A
Voltage	500VAC/500VDC	1000VDC	150VDC	1000VDC
Interrupt	40A~125A 50KA@500VAC 40A~125A 50KA@500VDC	40A~100A 50KA@500VDC	20A~200A 20KA@150VDC	100A~200A 50KA@1000VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals	In Progress	In Progress		
				
Series No.	WE53	WE55	WD38	WD35
Fuse Size	30x50mm	30x50mm	37x70mm	37x70mm
Current	100A~200A	150A~400A	250A~350A	150A~400A
Voltage	500VAC/500VDC	500VDC	1000VDC	800VDC
Interrupt	100A~200A 50KA@500VAC 100A~200A 50KA@500VDC	150A~400A 20KA@500VDC	250A~350A 50KA@1000VDC	150A~400A 20KA@800VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals				
				
Series No.	WD22	WD60	WD63	WHET
Fuse Size	37x70mm	37x50mm	37x50mm	18x45mm
Current	125A~400A	200A~400A	250A~400A	25A~100A
Voltage	700VAC/700VDC	500VDC	500VAC/500VDC	690VAC/500VDC
Interrupt	125A~400A 50KA@700VAC 125A~400A 50KA@700VDC	200A~400A 10KA@500VDC	250A~400A 50KA@500VAC 250A~400A 50KA@500VDC	25A~100A 50KA@690VAC 25A~100A 10KA@500VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals				

Products

Power Fuses

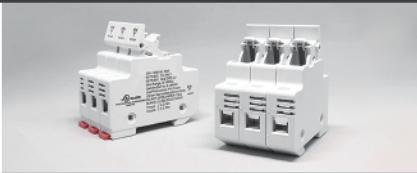
				
Series No.	WHFM	WHFMM	WLET	WLMT
Fuse Size	37×50mm	(37X50)X2mm	18x25mm	37x30mm
Current	180A~350A	500A~700A	25A~180A	250A~400A
Voltage	690VAC/500VDC	690VAC/500VDC	240VAC/150VDC	240VAC/150VDC
Interrupt	180A~350A 50KA@690VAC 180A~350A 10KA@500VDC	500A~700A 50KA@690VAC 500A~700A 10KA@500VDC	25A~180A 50KA@240VAC 25A~180A 10KA@150VDC	250A~400A 50KA@240VAC 250A~400A 10KA@150VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals				
				
Series No.	SABM10S	S315	S215S	S3M10S
Fuse Size	36x28mm	74x74x126mm	59x59x125mm	74x74x126mm
Current	200~400A	100A~630A	100A~400A	300A~800A
Voltage	1000VDC	1500VDC	1500VDC	1000VDC
Interrupt	200~400A 50KA&1000VDC	100A~630A 75KA@1500VDC	100A~400A 150KA&1500VDC	300A~800A 150KA&1000VDC
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	Fast Acting Type
Safety Approvals	In Progress		In Progress	In Progress
				
Series No.	S2M10S	S1M10S	S0M10S	
Fuse Size	59x59x80mm	51x51x80mm	43x43x80mm	
Current	200A~600A	100A~400A	100A~400A	
Voltage	1000VDC	1000VDC	1000VDC	
Interrupt	200A~600A 150KA&1000VDC	100A~400A 150KA@1000VDC	100A~400A 150KA@1000VDC	
Characteristic	Fast Acting Type	Fast Acting Type	Fast Acting Type	
Safety Approvals	In Progress	In Progress	In Progress	

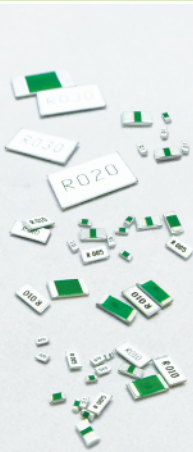
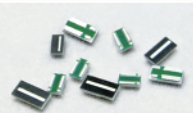
Products

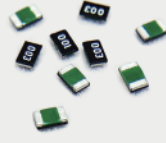
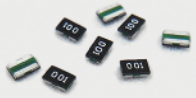
Power Fuses

		
Series No.	FSP	FHP
Fuse Size	5.2x20mm	5.2x20mm
Current	16A~30A	8A~25A
Interrupt	250/300/420VAC 250/300/420/500VDC	420VAC/VDC
Characteristic	Very Fast Acting Type	Fast Acting Type
Safety Approvals		

Fuse Holders

			
Series No.	WL52H	WL52H-2	WL52H-3
Fuse Size	Ø10mm	Ø10mm	Ø10mm
Current	30Amax@1100VDC 32Amax@600VAC 40Amax@500VACDC	30Amax@1100VDC 32Amax@600VAC 40Amax@500VACDC	30Amax@1100VDC 32Amax@600VAC 40Amax@500VACDC
Voltage	600VAC/1100VDC	600VAC/1100VDC	600VAC/1100VDC
Interrupt	30KA@1100VDC 50KA@600VAC	30KA@1100VDC 50KA@600VAC	30KA@1100VDC 50KA@600VAC
Characteristic	Holder	Holder	Holder
Safety Approvals			
			
Series No.	WL60H	WJ30H	
Fuse Size	Ø10mm	Ø14mm	
Current	30Amax@1500VDC	30Amax@1500VDC	
Voltage	1500VDC	1500VDC	
Interrupt	30KA@1500VDC	10KA@1500VDC	
Characteristic	Holder	Holder	
Safety Approvals			

Series No.	Product Images	Model	Pr(Watt)	Ro(mΩ)	Rt(%)	TCR(ppm)
			Power Rating at 70°C or Below	Device Normal Resistance	Normal Resistance Tolerance	Temperature Coefficient of Resistance
	STE / STE-Auto Series / STC Series					
		0603-□-W50-R□□-□	0.5(1/2)	5~100	±0.5, ±1	±50~±100
		0805-□-W75-R□□□-□	0.75(3/4)	3~500	±0.5, ±1	±50~±100
		1206-□-1W0-R□□□-□	1.0	3~700	±0.5, ±1	±50~±100
		2010-□-1W5-R□□□-□	1.5	2~700	±0.5, ±1	±50~±100
		2512-□-2W0-R□□□-□	2.0	2~700	±0.5, ±1	±50~±100
		3921-□-3W0-R□□□-□	3.0	2~100	±0.5, ±1	±50~±100
		4527-□-4W0-R□□□-□	4.0	2~100	±0.5, ±1	±50~±100
		0603-□-W50-R□□□-Auto	0.5	5~20	±0.5, ±1	±50~±100
		0805-□-W75-R□□□-Auto	0.75	5~200	±0.5, ±1	±50~±100
		1206-□-1W0-R□□□-Auto	1.0	3~570	±0.5, ±1	±50~±100
		2010-□-1W5-R□□□-Auto	1.5	5~300	±0.5, ±1	±50~±100
		2512-□-2W0-R□□□-Auto	2.0	50~350	±0.5, ±1	±50
		3921-C-□W□-R□□□-□□□	5.0	10, 20	±1	±100
	HTC / HTE / HTE-Auto					
		0805-□-1W0-R□□□-□	1.0	1~100	±0.5, ±1	±50~±100
		1206-□-1W5-R□□□-□	1.5	1~100	±0.5, ±1	±50~±100
		1508-□-2W0-R□□□-□	2.0	1~100	±0.5, ±1	±50~±100
		2010-□-2W0-R□□□-□	2.0	0.5~100	±0.5, ±1, ±3	±50~±150
		2512-□-3W0-R□□□-□	3.0	1~100	±0.5, ±1	±50~±100
		3008-□-3W0-R□□□-□	3.0	1~100	±0.5, ±1	±50~±100
		3015-□-4W0-R□□□-□	4.0	1~100	±0.5, ±1	±50~±100
		3618-□-4W0-R□□□-□	4.0	1~100	±0.5, ±1	±50~±100
		3921-□-5W0-R□□□-□	5.0	1~100	±0.5, ±1	±50~±100
		0805-□-1W0-R□□□-Auto	1.0	2~500	±0.5, ±1	±50~±100
		1206-□-1W5-R□□□-Auto	1.5	2~100	±0.5, ±1	±50~±100
		2010-□-2W0-R□□□-Auto	2.0	2~100	±0.5, ±1	±50~±100
		2512-□-3W0-R□□□-Auto	3.0	1~100	±0.5, ±1	±50~±100
3008-□-3W0-R□□□-Auto	3.0	1~100	±0.5, ±1	±50~±100		
	HFCL / HFCL-Auto Series					
		0603-□-0W33-R□□□-□	0.33	1~25	±1	±50~±100
		1206-□-1W0-R□□□-□	1.0	0.5~25	±0.5, ±1	±50~±150
		2512-□-2W0-R□□□-□	2.0	1~25	±0.5, ±1	±50~±100
		3015-□-2W0-R□□□-□	2.0	1~25	±0.5, ±1	±50~±100
		3618-□-3W0-R□□□-□	3.0	1~25	±0.5, ±1	±50~±100
		3921-□-4W0-R□□□-□	4.0	1~25	±0.5, ±1	±50~±100
		1206-□-1W0-R□□□-Auto	1.0	0.5~25	±0.5, ±1, ±2, ±3	±50~±150
	HFPL Series					
		0603-□-0W33-R□□□-□	0.33	0.5~5	±1, ±2	±100~±300
		0805-□-0W5-R□□□-□	0.5	1~2	±1, ±2, ±3, ±5	±100
	SFCA Series					
		1206-□-0W5-R□□□-□	0.5	0.5~100	±0.3, ±0.5, ±1	±15~±100
2512-□-□W□-R□□□-□		0.33~1.0	0.5~100	±0.5, ±1	±15~±100	

Series No.	Product Images	Model	Pr(Watt)	Ro(mΩ/Ω/KΩ/MΩ)	Rt(%)	TCR(ppm)
			Power Rating at 70°C or Below	Device Normal Resistance	Normal Resistance Tolerance	Temperature Coefficient of Resistance
Series No.	PMSH Series					
		2512-M-□W□-R□□□-□	2.0/3.0	1~4mΩ	±1	±50
		2512-M-□W□-R□□□-□	2.0/3.0	1~220mΩ	±1	±50
		2512-K-□W□-R□□□-□	2.0/3.0	221~500mΩ	±1	±50
		1206-M-□W□-R□□□-□	1	1~100mΩ	±1	±50 (1mR-1.5mR 380ppm)
		1206-M-□W□-R□□□-□	0.5	101~200mΩ	±1	±50
		2725-□-□W□-R□□□-□	4	0.2, 0.25, 1mΩ	±1	±25~±200
Series No.	MSH Series					
		1206-□-1W0-R□□□-□	1.0	4, 5, 10, 15mΩ	±0.5, ±1	±75
		2512-□-2W0-R□□□-□	2.0	0.5~56mΩ	±0.5, ±1	±50~150
		2512-□-3W0-R□□□-□	3.0	0.5~56mΩ	±0.5, ±1	±50~150
		2818-M-□W□-R□□□-□	5	2, 3, 5, 8, 10mΩ	±1	±75~200
		4527-M-□W□-R□□□-□	5	5, 10, 15, 20mΩ	±1	±75~110
		4527-M-□W□-R□□□-□	5, 7	2~10mΩ	±1	±110
Series No.	MSHL / MSHL-Auto Series					
		2512-□-2W0-R□□□-□	2.0	1~25mΩ	±0.5, ±1	±50~±100
		2512-□-3W0-R□□□-□	3.0	1~25mΩ	±0.5, ±1	±50~±100
		2512-□-□W□-R□□□-Auto	2.0 / 3.0	1~10mΩ	±1	±50~±100
Series No.	MSTC Series					
		0201-□-0W2-R□□□-□	0.2	10, 20mΩ	±0.5, ±1	±100~±250
		0402-□-0W□□-R□□□-□	0.25~0.33	2.5~50mΩ	±0.5, ±1	±100~±150
		0603-□-0W33-R□□□-□	0.33	2~20mΩ	±0.5, ±1	±75~±150
		0805-□-0W5-R□□□-□	0.5	1~20mΩ	±1	±50~±150
		1206-□-1W0-R□□□-□	1.0	1~20mΩ	±1	±50~±75
Series No.	MHTC Series					
		0805-□-1W 0-R□□□-□	1.0	1~5mΩ	±1	±50~±150
		1206-□-1W0-R□□□-□	1.0	1~5mΩ	±1	±100

Thin Film Resistors

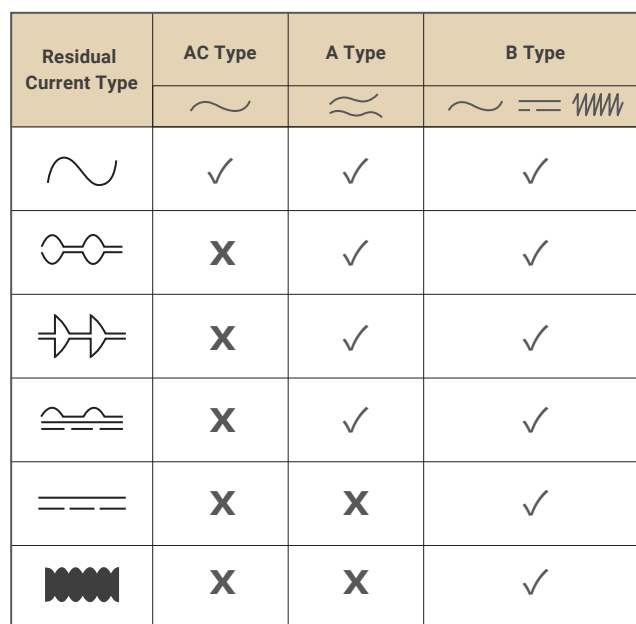
Series No.	Product Images	Series	Size	Pr(Watt)	Ro(mΩ/Ω/KΩ/MΩ)	Rt(%)	TCR(ppm)
				Power Rating at 70°C or Below	Device Normal Resistance	Normal Resistance Tolerance	Temperature Coefficient of Resistance
	PSTE Series						
		PSTE series -TR	0201~2512	0.05~0.75	4.7Ω~1.5MΩ	±0.1, ±0.25, ±0.5, ±1	±10~±50
		PSTE series -TP	0402~2512	0.063~0.75	4.7Ω~1.5MΩ	±0.01, ±0.05, ±0.1, ±0.25, ±0.5, ±1	±5~±25
PSTE series -TS		0402~1206	0.05~0.25	10Ω~1.5MΩ	±0.05, ±0.1, ±0.25, ±0.5, ±1	±25 / ±50	
PSTE series -TH		0402~2512	0.1~1	1Ω~100KΩ	±0.1, ±0.25, ±0.5, ±1, ±5	±10~±100	

Jumper

SMD NTC

www.walterfuse.com

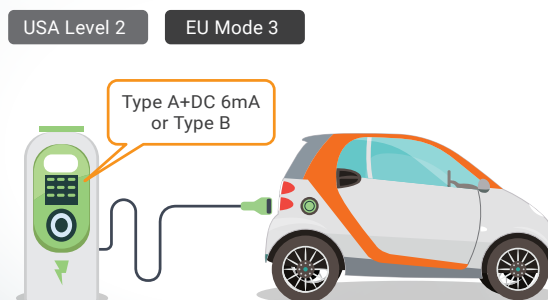
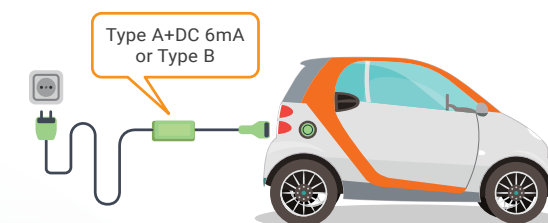
Residual Current Type



- Small size , applicable to various models and installation methods
- Meet IEC & UL & GB/T requirements
- Integrated self-check function
- CE / UL complete safety certifications

- Mode 2 IC-CPD
- Mode 3 wallbox
- Mode 3 charging Pile
- PV Inverter
- UPS

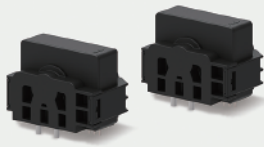
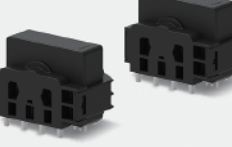
USA Level 1 EU Mode 2



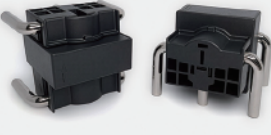
Flexible sales channels
and refined inventory
management to meet customer
delivery requirements

Products

Analog Residual Current Sensors(PV/BMS)

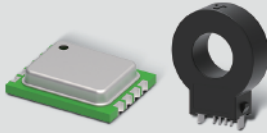
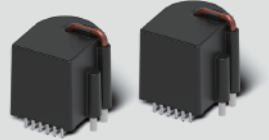
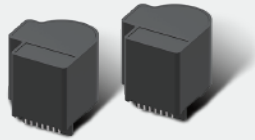
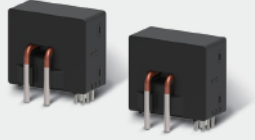
				
Model	JWRC-S08B-AP-2D	JWRC-S08B-AP-6D	JWRC-S14B-AP-2D	JWRC-S14B-xP-4D
Supply Voltage	5V	5V	5V	5V
Primary Current	20A	40A	20A	32A
Rated Current Measuring	300mA	300mA	300mA	300mA / 1000mA
Max Current Measuring	500mA	500mA	500mA	500mA / 1700mA
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	2%@25°C	2%@25°C	2%@25°C	2%@25°C
Bandwidth	700Hz	700Hz	700Hz	700Hz
Applicable Standards	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1
Type & Application	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~4.5kW Single-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~9.5kW Single-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~4.5kW Single-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~7W Single-Phase Inverter
				
Model	JWRC-S14B-xP-12D	JWRC-S14B-xP-4T	JWRC-S14B-xP-4F	JWRC-S14B-xP-7T
Supply Voltage	5V	5V	5V	5V
Primary Current	80A	32A	32A	46A
Rated Current Measuring	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA
Max Current Measuring	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	2%@25°C	2%@25°C	2%@25°C	2%@25°C
Bandwidth	700Hz	700Hz	700Hz	700Hz
Applicable Standards	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1
Type & Application	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~52kW Single-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~18kW Three-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~18kW Three-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~25kW Three-Phase Inverter
				
Model	JWRC-S14B-xP-7F	JWRC-S14B-xP-10T	JWRC-S20B-xP-6T	JWRC-S20B-xP-16T
Supply Voltage	5V	5V	5V	5V
Primary Current	46A	60A	42A	80A
Rated Current Measuring	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA
Max Current Measuring	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	2%@25°C	2%@25°C	2%@25°C	2%@25°C
Bandwidth	700Hz	700Hz	700Hz	700Hz
Applicable Standards	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1	IEC 61010-1:2010, EN 50178:1997 UL 508:2013, VDE0126-1-1
Type & Application	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~25kW Three-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~40kW Three-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~30kW Three-Phase Inverter	- Residual Currnt Sensor - Open-Loop Fluxgate Principle 0~50kW Three-Phase Inverter

Analog Residual Current Sensors(PV/BMS)

				
Model	JWRC-S20B-xP-28T	JWRC-S20B-xP-4F	JWRC-S20B-xP-10F	JWRC-S20B-xP-16F
Supply Voltage	5V	5V	5V	5V
Primary Current	150A	32A	60A	80A
Rated Current Measuring	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA	300mA / 1000mA
Max Current Measuring	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA	500mA / 1700mA
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	2%@25°C	2%@25°C	2%@25°C	2%@25°C
Bandwidth	700Hz	700Hz	700Hz	700Hz
Applicable Standards	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1
Type & Application	• Residual Currnt Sensor • Open-Loop Fluxgate Principle • 0~80kW Three-Phase Inverter	• Residual Currnt Sensor • Open-Loop Fluxgate Principle • 0~20kW Three-Phase Inverter	• Residual Currnt Sensor • Open-Loop Fluxgate Principle • 0~40kW Three-Phase Inverter	• Residual Currnt Sensor • Open-Loop Fluxgate Principle • 0~50kW Three-Phase Inverter
				
Model	JWRC-S23B-xP-28T	JWRC-S23B-xP-28F	JWRC-S23B-xP-44T	JWRC-S23B-xP-50T
Supply Voltage	5V	5V	5V	5V
Primary Current	140A	140A	220A	220A
Rated Current Measuring	1000mA / 2000mA / 3000mA	1000mA/3000mA	1000mA / 2000mA / 3000mA	2000mA / 3000mA / 5000mA
Max Current Measuring	1700mA / 3000mA / 5000mA	1700mA/5000mA	1700mA / 3000mA / 5000mA	3000mA/5000mA/10000mA
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	1.9%@25°C	1.9%@25°C	1.9%@25°C	1.9%@25°C
Bandwidth	15kHz	15kHz	15kHz	15kHz
Applicable Standards	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1	IEC 61010-1:2010 , EN 50178:1997 UL 508:2013 , VDE0126-1-1
Type & Application	• High-Frequency Residual Current Sensor • Close-Loop Fluxgate Principle • 0~90kW Three-Phase Inverter	• High-Frequency Residual Current Sensor • Close-Loop Fluxgate Principle • 0~150kW Three-Phase Inverter	• High-Frequency Residual Current Sensor • Close-Loop Fluxgate Principle • 0~150kW Three-Phase Inverter	• High-Frequency Residual Current Sensor • Close-Loop Fluxgate Principle • 0~320kW Three-Phase Inverter

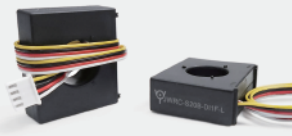
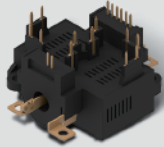
Products

Digital Residual Current Sensors(EV Charger/OBC)

Model Primary Conductor Style Primary Current Differential Current Output Mode Applicable Standards Type & Application				
	JWIC-R201D	JWRC-R14F-CA01	JWRC-R20F-CA01	JWMC-R201-20P
	Customized	Pass Through Opening	Pass Through Opening	Lead Soldering
	Customized	Customized	Customized	20A
	DC 6mA / AC 30mA / CCID20	DC 6mA / AC 30mA	DC 6mA / AC 30mA	DC 6mA / AC 30mA
	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level
	IEC 62752, IEC 62955, IEC 62423 GB/T 41589, GB/T 40820 GB/T 22794, UL 2231-2	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820
	- Type EV RCD/ Type B RCD - Mode 2 IC-CPD - Mode 3 wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox
Model Primary Conductor Style Primary Current Differential Current Output Mode Applicable Standards Type & Application				
	JWMC-R201-40P	JWRC-S08B-DI1P-SP	JWRC-S08C-DI1P	JWRC-S08D-DI1P
	Lead Soldering	Lead Soldering	Lead Soldering	Lead Soldering
	40A	20A	40A	40A
	DC 6mA / AC 30mA	DC 6mA / AC 30mA	DC 6mA / AC 30mA	DC 6mA / AC 30mA
	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level
	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820
	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox
Model Primary Conductor Style Primary Current Differential Current Output Mode Applicable Standards Type & Application				
	JWRC-RE Series	JWRC-R14E Series	JWRC-S14A-DI1F	JWRC-S20A-DIF
	Lead Soldering	Pass Through Opening	Pass Through Opening	Pass Through Opening
	40A / 80A	Customized	Customized	Customized
	DC 6mA / AC 30mA / CCID20	DC 6mA / AC 30mA / CCID20	DC 6mA / AC 30mA	DC 6mA / AC 30mA
	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level
	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820 UL 2231-2	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820 UL 2231-2	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820	IEC 62752, IEC 62955 GB/T 41589, GB/T 40820
	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox	- Mode 2 IC-CPD - Mode 3 Wallbox

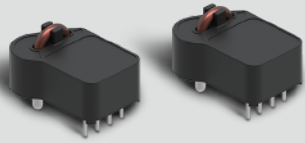
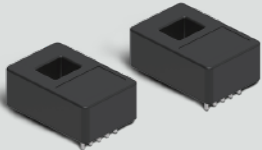
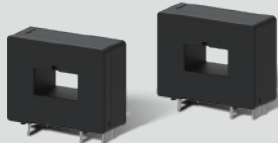
Products

Digital Residual Current Sensors(EV Charger/OBC)

				
Model	JWRC-S20B-DI1F-L8	JWRC-S14F-DOP	JWRC-S18A Series	JWRC-S14B-DIP-6T
Primary Conductor Style	Pass Through Opening	Pass Through Opening	Pass Through Opening	Lead Soldering
Primary Current	Customized	Customized	Customized	40A/80A
Differential Current	DC 6mA / AC 30mA	DC 6mA / CCID20	DC 6mA / CCID20	DC 6mA / AC 30mA
Output Mode	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level	High/Low Voltage Level
Applicable Standards	IEC 62752 , IEC 62955 GB/T 41589 , GB/T 40820	IEC 62955 GB/T 40820 , UL 2231-2	IEC 62955 GB/T 40820 , UL 2231-2	IEC 62752 , IEC 62955 GB/T 41589 , GB/T 40820
Type & Application	• Mode 2 IC-CPD • Mode 3 Wallbox	• Mode 2 IC-CPD • Mode 3 Wallbox	• Mode 2 IC-CPD • Mode 3 Wallbox	• Mode 2 IC-CPD • Mode 3 Wallbox
				
Model	JWMC-S301-20P/40P			
Primary Conductor Style	Lead soldering			
Primary Current	20A/40A			
Differential Current	DC 6mA / AC 30mA			
Output Mode	High/Low Voltage Level			
Applicable Standards	IEC 62752 , IEC 62955 GB/T 41589 , GB/T 40820			
Type & Application	• Mode 2 IC-CPD • Mode 3 Wallbox			

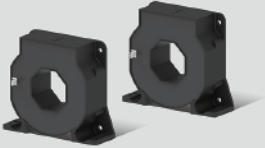
Products

Current Sensors

			
Model	JWDC-HS01 Series	JWDC-HS02 Series	JWDC-HSS1 Series
Primary Conductor Style	Lead Soldering	Pass Through Opening	Pass Through Opening
Supply Voltage	5V	5V	±15V
Rated Current	10A~120A	100A~1200A	50A~600A
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	1%@25°C 3.8%@105°C	0.6%	1%
Bandwidth	10~16A 280kHz 20~50A 280kHz 80~120A 90kHz	40kHz	50kHz
Type & Application	• Open-Loop Hall Principle • PV Inverter • Energy Storage PCS • Power Supply • Inverter and Servo • UPS • Inverter Welding Machine	• Open-Loop Hall Principle • Motor Driver • Battery Management • Starter Generators • EPS	• Open-Loop Hall Principle • Variable Frequency Drive • UPS • Welding Power Source • DC/DC Converters
			
Model	JWDC-XS01 Series	JWDC-XSS1 Series	JWDC-LSS1 Series
Primary Conductor Style	Lead Soldering	Pass Through Opening	Pass Through Opening
Supply Voltage	5V	5V	5V
Rated Current	5A~30A	25A~50A	150A~250A
Output Mode	Voltage Signal	Voltage Signal	Voltage Signal
Accuracy	1% @ 25°C 3% @ -40~105°C	0.8% @ 25°C 3% @ -40~105°C	0.8%@25°C 1.1%~-40~85°C
Bandwidth	600kHz	400kHz	200kHz
Type & Application	• Open-Loop TMR Technology • Variable Frequency Drive • Power Supply • Direct Current Generator • MPPT	• Open-Loop TMR Technology • Variable Frequency Drive • Power Supply • Direct Current Generator • MPPT	• Closed-Loop Hall Principle • PV Inverter • Energy Storage PCS • Power Supply • Inverter and Servo • UPS

Products

Current Sensors

Model Primary Conductor Style Supply Voltage Rated Current Output Mode Accuracy Bandwidth Type & Application						
	JWDC-LSS1-C Series		JWCT-DSR1 Series		JWDC-LS03 Series	
	Lead Soldering		Pass Through Opening		Pass Through Opening	
	5V		5V		±15V	
	150A~250A		200A~1200A		50A~100A	
	Voltage Signal		Voltage Signal		Current Signal	
	0.8%@25°C 1.1%@-40~85°C		1%@25°C		0.5%@25°C	
	200kHz		40kHz		100kHz	
	• Closed-Loop Hall Principle • PV Inverter • Energy Storage PCS • Power Supply • Inverter and Servo • UPS		• Open-Loop Hall Principle • Electric Control System • Electric Drive System		• Closed-Loop Hall Principle • Servo Driver • Power Equipment • Inverter • CNC Machine Tool	
Model Primary Conductor Style Supply Voltage Rated Current Output Mode Accuracy Bandwidth Type & Application						
	JWDC-LSR1 Series		JWDC-FSR1 Series			
	Pass Through Opening		Pass Through Opening			
	Dual Power Supply		12V/24V			
	300A/500A/1000A		500A/700A/1500A			
	Current Signal		CAN Signal			
	0.4%@25°C		0.2%@25°C 0.3%@-40~85°C			
	150kHz		70Hz			
	• Closed-Loop Hall Principle • Servo Driver • Power Equipment • Inverter • CNC Machine Tool		• Principles of Fluxgate • BMS • BDU • PDU • Industrial Lithium Battery Energy Management Equipment • Charging Pile			



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