



**Manufacturing Green Products
Light Up Future Life**



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Company Profile>>>

Shanghai Mida EV Power Co.,Ltd is a professional supplier of electric vehicle components,including all kinds of EV plugs and sockets,EV cables, EV connectors, and EV charging stations. All of our products come with CE,TUV and UL certification.We sell our products to domestic and overseas markets and have a very good reputation.Our products are especially popular in Europe and the America. At present, Mida EV power pay close attention to the development of new energy automotive industry,we determined to become the industry leader and innovator.

Mida Group constantly strive to adhere to our business philosophy of “quality is the soul,the principle of good faith,Innovation leads the future”. In order to establish a long-term relationship with all of our customers,we will offer a competitive price,high quantity products and a good after-sales-service and we will improve our competitiveness and achieve a win-win situation for us as well as our clients.We are looking forward to cooperating with you.

Achievement and Qualification



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AC EV Charger Connector



Type 1 EV Plug (SAE J1772)



Type 2 Female EV Plug



Type 2 Male EV Plug

Product Feature

Meet SAE J1772-2010 Standard and IEC 62196-2 Standard
Nice appearance , hand-held ergonomic design , easy plug
Thermoplastic,Flame Retardant Grade UL94 V-0
Terminal Material: Copper Alloy Silver Plating
TUV ,UL & CE Certificate

Mechanical Life no-load plug in/pull out > 10000 times
Excellent protection performance,protection grade IP54
Can afford 1m drop and 2t vehicle run over pressure Impat Force:
Reliability of materials,antiflaming,pressure-resistant,
abrasion resistance,impact resistance and high oil

Electrical Performance

Item	Type 1 J1772 EV Plug	Type 2 Female EV Plug	Type 2 Male EV Plug
Standard	SAE J1772-2010	IEC 62196-2	IEC 62196-2
Product Model	MIDA-EVA-16A MIDA-EVA-32A MIDA-EVA-40A MIDA-EVA-50A	MIDA-EVEF-16A-SP MIDA-EVEF-16A-TP MIDA-EVEF-32A-SP MIDA-EVEF-32A-TP	MIDA-EVEM-16A-SP MIDA-EVEM-16A-TP MIDA-EVEM-32A-SP MIDA-EVEM-32A-TP
Rated Current	16A, 32A, 40A, 50A , 70A, 80A	16A,32A,63A (Single/Three Phase)	16A , 32A (Single / Three Phase)
Operation Voltage	AC 120V / AC 240V	AC 250/ AC 480V	AC 250/ AC 480V
Insulation Resistance	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)
Withstand Voltage	2000V	2000V	2000V
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-30°C~+50°C
Coupled Insertion Force	>45N<80N	>45N<80N	>45N<80N
Impact Insertion Force	> 300N	>300N	>300N
Waterproof Degree	IP55	IP55	IP55
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Certification	TUV,CE Approved	TUV,CE Approved	TUV,CE Approved

AC EV Charger Socket



Type 1 EV Socket



Type 2 Male EV Socket



Type 2 Female EV Socket

Product Feature

Meet SAE J1772-2010 Standard and IEC 62196-2 Standard
Nice appearance , hand-held ergonomic design , easy plug
Thermoplastic,Flame Retardant Grade UL94 V-0
Pin Material: Copper Alloy Silver Plating
TUV ,UL & CE Certificate

Mechanical Life no-load plug in/pull out > 10000 times
Excellent protection performance,protection grade IP54
Can afford 1m drop and 2t vehicle run over pressure Impat Force:
Reliability of materials,antiflaming,pressure-resistant,
abrasion resistance,impact resistance and high oil

Electrical Performance

Item	Type 1 EV Socket	Type 2 Male Inlet Socket	Type 2 Female Outlet Socket
Standard	SAE J1772-2010	IEC 62196-2	IEC 62196-2
Product Model	MIDA-EVAS-16A,MIDA-EVAS-32A MIDA-EVAS-40A,MIDA-EVAS-50A	MIDA-EVMS-16A-SP , MIDA-EVMS-16A-TP MIDA-EVMS-32A-SP , MIDA-EVMS-32A-TP	MIDA-EVFS-16A-SP , MIDA-EVFS-16A-TP MIDA-EVFS-32A-SP , MIDA-EVFS-32A-TP
Rated Current	16A , 32A , 40A , 50A	16A , 32A ,50A	16A , 32A
Operation Voltage	AC 120V / 240V	AC 250V / 480V	AC 250V / 480V
Insulation Resistance	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)
Withstand Voltage	2000V	2000V	2000V
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-30°C~+50°C
Coupled Insertion Force	>45N<80N	>45N<80N	>45N<80N
Impact Insertion Force	> 300N	>300N	> 300N
Waterproof Degree	IP54	IP54	IP54
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Certification	UL,CE Approved	TUV,CE Approved	TUV,CE Approved

DC EV Charger Connector



CCS Combo 1 EV Plug



CCS Combo 2 EV Plug



CHAdeMO EV Plug

Product Feature

Meet IEC 62196-3 : 2014

Nice appearance , hand-held ergonomic design , easy plug

Case Material: Thermoplastic, Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plating

Product entire insertion and extraction force < 100N

Mechanical Life no-load plug in/pull out > 10000 times

Housing Massive structure promote protection performance

Impat Force: Can afford 1m drop and 2t vehicle run over pressure

Reliability of materials, antflaming, pressure-resistant,

abrasion resistance, impact resistance and high oil

Electrical Performance

Item	CCS Combo 1 EV Plug	CCS Combo 2 EV Plug	CHAdeMO EV Plug
Standard	IEC 62196-3	IEC 62196-3	IEC 62196-3 : 2014
Product Model	MIDA-CCS1-EV80P MIDA-CCS1-EV125P MIDA-CCS1-EV150P MIDA-CCS1-EV200P	MIDA-CCS2-EV80P MIDA-CCS2-EV125P MIDA-CCS2-EV150P MIDA-CCS2-EV200P	MIDA-CAM-EV80P MIDA-CAM-EV125P MIDA-CAM-EV150P MIDA-CAM-EV200P
Rated Current	80A ,125A, 150A , 200A	80A , 125A , 150A , 200A	80A , 125A , 150A , 200A
Operation Voltage	DC 1000V	DC 1000V	DC 1000V Max
DC Max Charging Power	90 KW	127.5 KW	62.5 kW
Insulation Resistance	> 2000MΩ (DC 1000V)	> 2000MΩ (DC 1000V)	5 MΩ or more (DC 500 V)
Withstand Voltage	3200V	3200V	3000V
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-30°C~+45°C
Impact Insertion Force	>300N	>300N	>300N
Protection Degree	IP65	IP55	IP54
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Cable specigation	2 X 50mm ² +2 X 6mm ² +6 X 0.75mm ²	2 X 50mm ² +1 X 25mm ² +6 X 0.75mm ²	2 X35mm ² +14 X 0.5mm ² +2 X 0.5mm ²
Certification	CE Approved	TUV,CE Approved	CE Approved

DC EV Charger Socket



CCS Combo 1 Inlet Socket



CCS Combo 2 Inlet Socket



CHAdeMO Inlet Socket

Product Feature

Meet IEC 62196-3 : 2014

Nice appearance, Support Back installation

Contact with drainage structure ,improve safety performance

Case Material: Thermoplastic, Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plating+thermoplastic on the top

Mechanical Life no-load plug in/pull out > 10000 times

Housing Massive structure promote protection performance

Impat Force: Can afford 1m drop and 2t vehicle run over pressure

Safety pins material insulated head design to prevent accidental

direct contact with employee

Electrical Performance

Item	CCS Combo 1 Inlet Socket	CCS Combo 2 Inlet Socket	CHAdeMO Inlet Socket
Standard	IEC 62196-3	IEC 62196-3	IEC 62196-3
Product Model	MIDA-CCS1-EV80S MIDA-CCS1-EV125S MIDA-CCS1-EV150S MIDA-CCS1-EV200S	MIDA-CCS2-EV80S MIDA-CCS2-EV125S MIDA-CCS2-EV150S MIDA-CCS2-EV200S	MIDA-CAM-EV125S MIDA-CAM-EV150S MIDA-CAM-EV200S
Rated Current	80A , 125A, 150A , 200A	80A , 125A, 150A , 200A	125A , 150A, 200A
Operation Voltage	DC 1000V	DC 1000V	DC 1000V Max
DC Max Charging Power	90 KW	127.5 KW	50 kW
AC Max Charging Power	41.5 KW	41.5 KW	43 kW
Insulation Resistance	> 2000MΩ (DC 1000V)	> 2000MΩ (DC 1000V)	> 2000MΩ (DC 1000V)
Withstand Voltage	3200V	3200V	3200V
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-60°C~+45°C
Impact Insertion Force	>300N	>300N	>300N
Protection Degree	IP55	IP55	IP55
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Cable specigation	2 X 50mm ² +3 X 6mm ² +8 X 0.75mm ²	2 X 50mm ² +1 X 25mm ² +6 X 0.75mm ²	2 X 50mm ² +2 X 16mm ² +2 X 0.5mm ²
Certification	CE Approved	CE Approved	CE Approved

ES Charger Connector & Socket



ES Charger Connector



ES Charger Socket

Product Feature

Meet IEC 62196-6 ED1 Standard

Nice appearance , handheld design in line with ergonomic principles , convenient plug and Pull

Case Material: Thermoplastic, Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plating

Product entire insertion and extraction force < 100N

Mechanical Life no-load plug in/pull out > 10000 times

Housing Massive structure promote protection performance

Impact Force: Can afford 1m drop and 2t vehicle run over pressure

Reliability of materials, antiflaming, pressure-resistant,

abrasion resistance, impact resistance and high oil

Electrical Performance

Item	ES Charger Connector	ES Charger Socket
Standard	IEC 62196-6 ED1	IEC 62196-6 ED1
Product Model	MIDA-ES-EV60P	MIDA-ES-EV60S
Rated Current	60A	60A
Operation Voltage	120V AC	120V AC
Insulation Resistance	> 5MΩ (DC 500V)	> 5MΩ (DC 500V)
Withstand Voltage	2000V AC /1min	2000V AC /1min
Contact Resistance	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K
Terminal Material	Copper Alloy , Silver Plating	Copper Alloy , Silver Plating
Operating Temperature	-30°C~+50°C	-30°C~+50°C
Impact Insertion Force	>300N	>300N
Protection Degree	IP54	IP54
Flame Retardant Grade	UL94 V-0	UL94 V-0
Certification	CE Approved	CE Approved

China GB/T Charger Connector & Socket



GB/T AC Charger Connector



GB/T DC Charger Connector



GB/T DC Charger Socket

Product Feature

Meet GB/T 20345.2-2015 Standard

Nice appearance , hand-held ergonomic design , easy plug

Case Material: Thermoplastic, Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plating

Product entire insertion and extraction force < 100N

Mechanical Life no-load plug in/pull out > 10000 times

Housing Massive structure promote protection performance

Impact Force: Can afford 1m drop and 2t vehicle run over pressure

Reliability of materials, antiflaming, pressure-resistant,

abrasion resistance, impact resistance and high oil

Electrical Performance

Item	GB/T AC Charger Connector	GB/T DC Charger Connector	GB/T DC Charger Socket
Standard	GB/T 20234.2-2015	GB/T 20234.3-2015	GB/T 20234.3-2015
Product Model	MIDA-GBT-EV16SP MIDA-GBT-EV32SP MIDA-GBT-EV16TP MIDA-GBT-EV32TP	MIDA-GBT-EV80P MIDA-GBT-EV125P MIDA-GBT-EV200P MIDA-GBT-EV250P	MIDA-GBT-EV80S MIDA-GBT-EV125S MIDA-GBT-EV200S MIDA-GBT-EV250S
Rated Current	10A ,16A ,32A,63A	80A, 125A , 200A, 250A	80A, 125A , 200A, 250A
Operation Voltage	AC 250V / 440V	750V/1000V DC	750V/1000V DC
Insulation Resistance	> 2000MΩ (DC 500V)	> 2000MΩ (DC 500V)	> 2000MΩ (DC 500V)
Withstand Voltage	2500V	3500V	3500V
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-40°C~+60°C	-30°C~+50°C	-40°C~+45°C
Impact Insertion Force	>300N	>300N	>300N
Protection Degree	IP55	IP55	IP55
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Certification	CE , CQC Approved	CE , CQC Approved	CE , CQC Approved

AC EV Adapter Connector



Type 1 to Type 2 EV Adapter

Type 1 to Tesla EV Adapter

Type 2 to Type 1 EV Adapter

Product Feature

Meet IEC 62196-2
 Nice appearance, Support Back installation
 Contact with drainage structure ,improve safety performance
 Inner Core:Thermoplastic
 Case Material: Thermoplastic,Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plated Surface
 Mechanical Life no-load plug in/pull out > 5000 times
 Superior Protection Performance ,Protection Level Up to IP67
 (Inside the Product)
 Safety pins material insulated head design to prevent accidental direct contact with employee

Electrical Performance

Item	Type 1 to Type 2 EV Adapter	Type 1 to Tesla EV Adapter	Type 2 to Type 1 EV Adapter
Standard	IEC 62196-2	IEC 62196-2	IEC 62196-2
Product Model	MIDA-T1-T2	MIDA-T1-TE	MIDA-T2-T1
Rated Operating Current	32A	60A	32A
Operation Voltage	AC 250V	AC 250V	AC 250V
Insulation Resistance	> 1000MΩ (DC 500V)	> 5MΩ (DC 500V)	> 1000MΩ (DC 500V)
Withstand Voltage	2000V / 5s	2000VAC /1min	2000V / 5s
Contact Resistance	0.5mΩ Max	0.5mΩ Max	0.5mΩ Max
Terminal Temperature Rise	< 50K	< 50K	< 50K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-30°C~+50°C
Impact Insertion Force	45N<F<80N	45N<F<80N	45N<F<80N
Mechanical Life	> 5000 times	> 5000 times	> 5000 times
Protection Degree	IP55	IP55	IP55
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Certification	CE Approved	CE Approved	CE Approved

DC EV Adapter Connector



CCS 2 to CCS 1 EV Adapter

CCS 1 to CCS 2 EV Adapter

CHAdeMO to GB/T EV Adapter

Product Feature

Meet IEC 62196-3 : 2014
 Nice appearance, Support Back installation
 Contact with drainage structure ,improve safety performance
 Inner Core:Thermoplastic
 Case Material: Thermoplastic,Flame Retardant Grade UL94 V-0

Terminal Material: Copper Alloy , Silver Plated Surface
 Mechanical Life no-load plug in/pull out > 5000 times or 10000times
 Superior Protection Performance ,Protection Level Up to IP67
 (Inside the Product)
 Safety pins material insulated head design to prevent accidental direct contact with employee

Electrical Performance

Item	CCS 2 to CCS 1 EV Adapter	CCS 1 to CCS 2 EV Adapter	CHAdeMO to GB/T EV Adapter
Standard	IEC 62196-3	IEC 62196-3	IEC 62196-3
Product Model	MIDA-CCS2-CCS1	MIDA-CCS1-CCS2	MIDA-CAM-GBT
Rated Operating Current	150A Max	150A Max	125A Max
Operation Voltage	DC 1000V	DC 1000V	DC 100V~ 500V
Insulation Resistance	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)	> 1000MΩ (DC 500V)
Withstand Voltage	2000V AC / 1min	3200V DC	3200V DC
Contact Resistance	0.3mΩ Max	0.3mΩ Max	0.3mΩ Max
Terminal Temperature Rise	< 45K	< 45K	< 45K
Operating Temperature	-30°C~+50°C	-30°C~+50°C	-30°C~+50°C
Impact Insertion Force	45N<F<80N	45N<F<80N	45N<F<80N
Mechanical Life	> 10000 times	> 10000 times	> 10000 times
Protection Degree	IP54 (Working State)	IP67 (Working State)	IP54 (Working State)
Flame Retardant Grade	UL94 V-0	UL94 V-0	UL94 V-0
Certification	CE Approved	CE Approved	CE Approved

Type 1 EV Tethered Cable

Model : MIDA-EVA-16A / MIDA-EVA-32A
MIDA-EVA-40A / MIDA-EVA-50A



(EVA=American Standards EV Plug / Type 1 EV Plug With EV Cable)

Electrical Performance

Item	SAE J1772 Type 1 EV Plug With EV Cable
Standard	SAE J1772-2010
Product Model	MIDA-EVA-16AP / MIDA-EVA-32AP / MIDA-EVA-40AP / MIDA-EVA-50AP / MIDA-EVA-80AP
Rated Current	16Amp 32Amp 40Amp 50Amp 80Amp
Operation Voltage	AC 120V / AC 240V
Insulation Resistance	> 1000MΩ (DC 500V)
Withstand Voltage	2000V
Pin Material	Copper Alloy, Silver Plating
Shell Material	Thermoplastic, Flame Retardant Grade UL94 V-0
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times
Contact Resistance	0.5mΩ Max
Terminal Temperature Rise	< 50K
Operating Temperature	-30°C~+50°C
Impact Insertion Force	> 300N
Waterproof Degree	IP55
Cable Protection	Reliability of materials, antiflaming, pressure-resistant, abrasion resistance, impact resistance and high oil
Flame Retardant Grade	TUV, UL, CE Approved

Model	Rated Current	Cable Specification	Cable Color	Cable Length
MIDA-EVA-16AP	16Amp	3 X 2.5mm ² + 2 X 0.5mm ² 3 X 14AWG+1 X 18AWG	Black	(5Meter ,10Meter)
MIDA-EVA-32AP	32Amp	3 X 6mm ² + 2 X 0.5mm ² 3 X 10AWG+1 X 18AWG		
MIDA-EVA-40AP	40Amp	2 X 8AWG + 1 X 10AWG + 1 X 16AWG	Green	The length of the cable can be customized
MIDA-EVA-50AP	50Amp	2 X 8AWG + 1 X 10AWG + 1 X 16AWG		
MIDA-EVA-80AP	80Amp	2 X 5AWG + 1 X 6AWG + 1 X 16AWG		

Type 2 EV Tethered Cable

Model : MIDA-EVF-16A-SP / MIDA-EVF-32A-SP
MIDA-EVF-16A-TP / MIDA-EVF-32A-TP



(EVF=European Standards Female EV Plug / Type 2 Female EV Plug With EV Cable)

Electrical Performance

Item	Type 2 Female EV Plug with Cable	
Standard	IEC 62196-2 : 2017	
Product Model	MIDA-EVF-16A-SP / MIDA-EVF-32A-SP	MIDA-EVF-16A-TP / MIDA-EVF-32A-TP
Rated Current	16Amp / 32Amp Single Phase	16Amp / 32Amp Three Phase
Operation Voltage	AC 250V	AC 480V
Insulation Resistance	> 1000MΩ (DC500V)	
Withstand Voltage	2000V	
Pin Material	Copper Alloy, Silver Plating	
Shell Material	Thermoplastic, Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Operating Temperature	-30°C~+50°C	
Impact Insertion Force	> 300N	
Waterproof Degree	IP55	
Cable Protection	Reliability of materials, antiflaming, pressure-resistant, abrasion resistance, impact resistance and high oil	
Certification	TUV, CE Approved	

Model	Rated Current	Phase	Cable Specification	Cable Color	Cable Length
MIDA-EVF-16A-SP	16Amp	Single Phase	3 X 2.5mm ² + 2 X 0.5mm ²	Black Orange Green	(5Meter ,10Meter) The length of the cable can be customized
MIDA-EVF-32A-SP	32Amp		3 X 6mm ² + 2 X 0.5mm ²		
MIDA-EVF-16A-TP	16Amp	Three Phase	5 X 2.5mm ² + 2 X 0.5mm ²		
MIDA-EVF-32A-TP	32Amp		5 X 6mm ² + 2 X 0.5mm ²		

Type 1 to Type 2 EV Charging Cable

Model : MIDA-EVAE-16A / MIDA-EVAE-32A



(EVAE=American Standards to European Standards EV Plug / Type 1 to Type 2 EV Charging Cable)

Electrical Performance

Item	Type 1 to Type 2 EV Charging Cable	
Standard	SAE J1772-2010 to IEC 62196-2	
Product Model	MIDA-EVAE-16A	MIDA-EVAE-32A
Rated Current	16Amp	32Amp
Operation Voltage	AC 250V	
Insulation Resistance	> 1000MΩ (DC 500V)	
Withstand Voltage	2000V	
Pin Material	Copper Alloy, Silver Plating	
Shell Material	Thermoplastic, Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Operating Temperature	-30°C~+50°C	
Impact Insertion Force	> 300N	
Waterproof Degree	IP55	
Cable Protection	Reliability of materials, antiflaming, pressure-resistant, abrasion resistance, impact resistance and high oil	
Certification	TUV, UL, CE Approved	

Model	Rated Current	Cable Specification	Cable Color	Cable Length
MIDA-EVAE-16A	16 Amp	3 X 2.5mm ² + 2 X 0.5mm ²	Black Orange Green	(5Meter ,10Meter) The length of the cable can be customized
		3x14AWG+1X18AWG		
MIDA-EVAE-32A	32 Amp	3 X 6mm ² +2 X 0.5mm ²		
		3x10AWG+1X18AWG		

Type 2 to Type 2 EV Charging Cable

Model : MIDA-EVFM-16A-SP / MIDA-EVFM-32A-SP

MIDA-EVFM-16A-TP / MIDA-EVFM-32A-TP



(EVFM=European Standards Female to Male EV Plug / Type 2 to Type 2 EV Charging Cable)

Electrical Performance

Item	Type 2 to Type 2 EV Charging Cable	
Standard	IEC 62196-2 : 2017	
Product Model	MIDA-EVFM-16A-SP MIDA-EVFM-32A-SP	MIDA-EVFM-16A-TP MIDA-EVFM-32A-TP
Rated Current	16Amp / 32Amp Single Phase	16Amp / 32Amp Three Phase
Operation Voltage	AC 250V	AC 480V
Insulation Resistance	> 1000MΩ (DC 500V)	
Withstand Voltage	2000V	
Pin Material	Copper Alloy, Silver Plating	
Shell Material	Thermoplastic, Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Operating Temperature	-30°C~+50°C	
Impact Insertion Force	> 300N	
Waterproof Degree	IP55	
Cable Protection	Reliability of materials, antiflaming, pressure-resistant, abrasion resistance, impact resistance and high oil	
Certification	TUV, CE Approved	

Model	Rated Current	Phase	Cable Specification	Cable Color	Cable Length
MIDA-EVFM-16A-SP	16Amp	Single Phase	3 X 2.5mm ² + 2 X 0.5mm ²	Black Orange Green	(5Meter ,10Meter) The length of the cable can be customized
MIDA-EVFM-32A-SP	32Amp		3 X 6.0mm ² +2 X 0.5mm ²		
MIDA-EVFM-16A-TP	16Amp	Three Phase	5 X 2.5mm ² + 2 X 0.5mm ²		
MIDA-EVFM-32A-TP	32Amp		5 X 6.0mm ² +2 X 0.5mm ²		

EV Coiled Cable

Model : MIDA-EVAE-16AP / MIDA-EVAE-32AP

MIDA-EVFM-16AT / MIDA-EVFM-32AT



(Type 1 to Type 2 EV Coiled Cable)



(Type 2 to Type 2 EV Coiled Cable)

Electrical Performance

Item	Type 1 to Type 2 EV Coiled Cable	Type 2 to Type 2 EV Coiled Cable
Standard	SAE J1772-2010 to IEC 62196-2	IEC 62196-2 : 2017
Product Model	MIDA-EVAE-16AP MIDA-EVAE-32AP	MIDA-EVFM-16AS / MIDA-EVFM-32AS MIDA-EVFM-16AT / MIDA-EVFM-32AT
Rated Current	16A , 32A	16A , 32A
Operation Voltage	250V AC	250V / 480V AC
Insulation Resistance	> 1000MΩ (DC 500V)	
Withstand Voltage	2000V AC /1min	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Terminal Material	Copper Alloy , Silver Plating	
Operating Temperature	-30°C~+50°C	
Impact Insertion Force	> 300N	
Protection Degree	IP55	
Flame Retardant Grade	UL94 V-0	
Cable Protection	Reliability of materials,antiflaming,pressure-resistant,abrasion resistance,impact resistance and high oil	
Certification	TUV, UL , CE Approved	

Model	Rated Current	Phase	Cable Specification	Cable Color	Cable Length
MIDA-EVAE-16AP	16Amp	Single Phase	3 X 2.5mm ² + 2 X 0.5mm ²	Black Orange Green	(5Meter ,10Meter) The length of the cable can be customized
MIDA-EVAE-32AP	32Amp		3 X 6.0mm ² +2 X 0.5mm ²		
MIDA-EVFM-16AS	16Amp	Single Phase	3 X 2.5mm ² + 2 X 0.5mm ²		
MIDA-EVFM-32AS	32Amp		3 X 6.0mm ² +2 X 0.5mm ²		
MIDA-EVFM-16AT	16Amp	Three Phase	5 X 2.5mm ² + 2 X 0.5mm ²		
MIDA-EVFM-32AT	32Amp		5 X 6.0mm ² +2 X 0.5mm ²		

TUV Standard EV Charging Cable

Product Introduction:

EV cable is a kind of flexible cable to connect electric vehicle with charging pile or power socket, high quality oxygen-free copper conductor ensures excellent conductive effect; TPE insulation material is soft and high strength; cable sheath is made from high-performance TPE, which possess characteristic as weatherability, high&low temperature resistance, rub resistance, ect.The cable is soft, elastic, flex index and won't harden in low temperature. EV Cables for Electric vehicle conductive charging system are fit for Battery Electric Vehicle, Fuel Cell Vehicle(FCV) & Hybrid Electric Vehicle(HEV).They are widely used in charging connection between electric vehicle and power supply; or used in Electric Vehicle charging facility & Charge interface.



AC EV Charging Cable



DC Fast Charger Cable

AC Single Phase (TUV)	Conductor	Rated Current	Rated Voltage	Color
	3x2.5mm ² +2x0.5mm ²	16Amp	450V/750V	Black Orange Green
	3x6.0mm ² +2x0.5mm ²	32Amp		
	3x8.0mm ² +2x0.5mm ²	40A/50Amp		
	3x10mm ² +2x0.5mm ²	63Amp		
AC Single Phase (UL)	Conductor	Rated Current	Rated Voltage	Color
	3x14AWG+1x18AWG	16Amp	600V	Black Orange Green
	3x10AWG+1x18AWG	32Amp		
	2x8AWG+1x10AWG+1x16AWG	40Amp		
	2x8AWG+1x10AWG+1x16AWG	50Amp		
AC Three Phase (TUV)	Conductor	Rated Current	Rated Voltage	Color
	5x2.5mm ² +2x0.5mm ²	16Amp	450/750V	Black Orange Green
	5x6.0mm ² +2x0.5mm ²	32Amp		
	5x10mm ² +2x0.5mm ²	63Amp		
	5x13.3mm ² +2x0.5mm ²	70Amp		
DC Fast Charger (TUV)	Conductor	Rated Current	Rated Voltage	Color
	2x16mm ² +1x25mm ² +6x0.75mm ²	80Amp	750V/1000V	Black Orange Green
	2x35mm ² +1x25mm ² +6x0.75mm ²	125Amp		
	2x50mm ² +1x25mm ² +6x0.75mm ²	150Amp		
	2x70mm ² +1x25mm ² +6x0.75mm ²	200Amp		
	2x80mm ² +1x25mm ² +6x0.75mm ²	250Amp		

Product Description:

- Conductor: Soft annealed stranded Bare Copper
- Insulation: 125°C halogen free TPE or TPU
- Filler: Cotton thread
- Cover: Non-woven fabrics
- Sheath: 125°C halogen free TPE or TPU
- Color : Black,Orange,Green
- Rated Volatage: AC 450/750V,DC 1000V
- Rated temperature: -25°C upto +125°C
- Voltage Test: 2.5KV AC /15min . No Breakdown
- Short circuit using temperature: +200°C 5s
- Crush Resistance : 5kN ,8Km/h,220KPa,No Breakdown
- Flame Test: VW-1 test method comply with UL 2556

16Amp Adjustable EV Charger



MIDA-EVSE-PA16S



MIDA-EVSE-PE16S

Specification:

For the wall side plug: We can install the wall side plug according different countries situation:

AU Customers-----AU/NZ Plug ,8A,10A,15A

UK Customers-----UK Plug 8A,10A, 13A

EU Customers-----EU Schuko Plug ,Blue CEE Plug ,Red CEE Plug, Max 16A

US Customers-----NEMA 5-15,6-15,6-20, L6-30, 10-30, 10-50, L14-30, L14-50 Plug

Other Customers-----Japan Plug ,South Africa Plug ,Thailand Plug ,Israel Plug ,Demark Plug etc.

Electrical Performance

Item	Mode 2 EV Charger Cable (Adjustable Current 16A)	
Product Model	MIDA-EVSE-PA16S	MIDA-EVSE-PE16S
Rated Current	6A / 8A / 10A / 13A / 16A (Optional)	
Rated Power	Max 3.6KW	
Operation Voltage	AC 110V~250 V	
Rate Frequency	50Hz/60Hz	
Leakage Protection	Type B RCD (Optional)	
Withstand Voltage	2000V	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Shell Material	ABS and PC Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Operating Temperature	-25°C ~ +55°C	
Storage Temperature	-40°C ~ +80°C	
Protection Degree	IP67	
EV Control Box Size	200mm (L) X 93mm (W) X 51.5mm (H)	
Weight	2.2KG	
OLED Display	Temperature, Charging Time, Actual Current, Actual Voltage, Actual Power, Capacity Charged, Preset Time	
Standard	IEC 62752 , IEC 61851	
Certification	TUV,CE Approved	
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection	

32Amp Adjustable EV Charger



MIDA-EVSE-PA32S



MIDA-EVSE-PE32S

Specification:

For the wall side plug: We can install the wall side plug according different countries situation:

EU Customers-----32A 3Pin Blue CEE Plug Max

US Customers-----NEMA10-50 Plug ,NEMA 14-50 Plug,NEMA 6-50 Plug

Electrical Performance

Item	Mode 2 EV Charger Cable (Adjustable Current 32A)	
Product Model	MIDA-EVSE-PA32S	MIDA-EVSE-PE32S
Rated Current	10A / 16A / 20A/ 24A / 32A (Optional)	
Rated Power	Max 7.2KW	
Operation Voltage	AC 110V~250 V	
Rate Frequency	50Hz/60Hz	
Leakage Protection	Type B RCD (Optional)	
Withstand Voltage	2000V	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Shell Material	ABS and PC Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Operating Temperature	-25°C ~ +55°C	
Storage Temperature	-40°C ~ +80°C	
Protection Degree	IP67	
EV Control Box Size	200mm (L) X 93mm (W) X 51.5mm (H)	
Weight	2.8KG	
OLED Display	Temperature, Charging Time, Actual Current, Actual Voltage, Actual Power, Capacity Charged, Preset Time	
Standard	IEC 62752 , IEC 61851	
Certification	TUV,CE Approved	
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection	

Mode 2 Portable EV Charger



MIDA-EVSE-PA16



MIDA-EVSE-PE16

Specification:

For the wall side plug: We can install the wall side plug according different countries situation:

AU Customers-----AU/NZ Plug ,8A,10A,15A

UK Customers-----UK Plug 8A,10A, 13A

EU Customers-----EU Schuko Plug ,Blue CEE Plug ,Red CEE Plug, Max 16A

US Customers-----NEMA 5-15,6-15,6-20, L6-30, 10-30, 10-50, L14-30, L14-50 Plug

Other Customers-----Japan Plug ,South Africa Plug ,Thailand Plug ,Israel Plug ,Demark Plug etc.

Electrical Performance

Item	Mode 2 EV Charger Cable	
Product Model	MIDA-EVSE-PA16	MIDA-EVSE-PE16
Rated Current	8A / 10A / 13A / 16A (Optional)	
Rated Power	Max 3.6KW	
Operation Voltage	AC 110V ~250 V	
Rate Frequency	50Hz/60Hz	
Withstand Voltage	2000V	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Shell Material	ABS and PC Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Operating Temperature	-25°C ~ +55°C	
Storage Temperature	-40°C ~ +80°C	
Protection Degree	IP65	
EV Control Box Size	248mm (L) X 104mm (W) X 47mm (H)	
Weight	2.1KG	
Standard	IEC 62752 , IEC 61851	
Certification	TUV,CE Approved	
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection	

Three Phase Portable EV Charger (16A / 32A)



MIDA-EVSE-PE16T



MIDA-EVSE-PE32T

Specification:

For the wall side plug: We can install the wall side plug according different countries situation:

EU Customers-----32A 5Pin Red CEE Plug Max

Electrical Performance

Item	Mode 2 EV Charger Cable	
Product Model	MIDA-EVSE-PE16T	MIDA-EVSE-PE32T
Rated Current	16A Three Phase	32A Three Phase
Rated Power	11KW	22KW
Operation Voltage	AC 440 V Max	
Rate Frequency	50Hz/60Hz	
Leakage Protection	Type B RCD (Optional)	
Withstand Voltage	2000V	
Contact Resistance	0.5mΩ Max	
Terminal Temperature Rise	< 50K	
Shell Material	ABS and PC Flame Retardant Grade UL94 V-0	
Mechanical Life	No-Load Plug In / Pull Out > 10000 Times	
Operating Temperature	-25°C ~ +55°C	
Storage Temperature	-40°C ~ +80°C	
Protection Degree	IP65 (EV Charging Plug) , IP67 (EV Charging Box)	
EV Control Box Size	260mm (L) X 102mm (W) X 77mm (H)	
Weight	3.80KG	
OLED Display	Temperature, Charging Time, Actual Current, Actual Voltage, Actual Power, Capacity Charged, Preset Time	
Standard	IEC 62752 , IEC 61851	
Certification	TUV,CE Approved	
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection	

3.6KW /7KW Smart AC Charging Pile

Model: MIDA-EVSP-3.6KW / MIDA-EVSP-7KW



MIDA-EVSP-3.6KW



MIDA-EVSP-7KW

Electrical Performance

Item	Smart Wall Mounted AC Charging Pile
Product Model	MIDA-EVSP-3.6KW / MIDA-EVSP-7KW
Rated Current	16Amp / 32Amp
Operation Voltage	AC 230V
Rated frequency	50/60Hz
Leakage Protection	Type A RCD 30mA +DC leakage 6mA (Optional)
Shell Material	PC Alloy
Atmospheric Pressure	80KPA ~ 110KPA
Relative Humidity	5%~95%
Installation Ambient	Outdoor / Indoor
Operating Temperature	-25°C~+50°C
Protection Degree	IP54
Charging Mode	Remote Control to Start or Wipe Card to Start
States indicating	LED indicating light in Red,Green and Blue
User identification	Remote Key or ID Card
Communication Mode	2G/4G (Optional)
Dimensions	310mm (L) X 200mm (W) X 70mm (H)
Weight	7.0 KG
Certification	IEC 61851-1:2010 EN 61851-1:2011 IEC 61851-22:2002 EN 61851-22:2002
Standard	TUV,CE Approved
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection

7KW Wall Mounted EV Charging Station

Model: MIDA-EVST-7KW / MIDA-EVSS-7KW



MIDA-EVST-7KW



MIDA-EVSS-7KW

Electrical Performance

Item	7KW AC EV Charger Station
Product Model	MIDA-EVST-7KW / MIDA-EVSS-7KW
Rated Current	32Amp
Operation Voltage	AC 230V Single Phase
Rated frequency	50/60Hz
Leakage Protection	Type B RCD / RCCB 30mA
Shell Material	Aluminum Alloy
Status Indication	LED Status Indicator
Function	RFID Card
Atmospheric Pressure	80KPA ~ 110KPA
Relative Humidity	5%~95%
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+70°C
Protection Degree	IP55
Dimensions	350mm (L) X 215mm (W) X 110mm (H)
Weight	7.0 KG
Certification	IEC 61851-1:2010 EN 61851-1:2011 IEC 61851-22:2002 EN 61851-22:2002
Standard	TUV,CE Approved
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection

11KW Wall Mounted EV Charging Station

Model: MIDA-EVST-11KW / MIDA-EVSS-11KW



MIDA-EVST-11KW

MIDA-EVSS-11KW

Electrical Performance

Item	11KW AC EV Charger Station
Product Model	MIDA-EVST-11KW / MIDA-EVSS-11KW
Rated Current	16Amp
Operation Voltage	AC 400V Three Phase
Rated frequency	50/60Hz
Leakage Protection	Type B RCD / RCCB
Shell Material	Aluminum Alloy
Status Indication	LED Status Indicator
Function	RFID Card
Atmospheric Pressure	80KPA ~ 110KPA
Relative Humidity	5%~95%
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+70°C
Protection Degree	IP55
Dimensions	350mm (L) X 215mm (W) X 110mm (H)
Weight	8.0 KG
Certification	IEC 61851-1:2010 EN 61851-1:2011 IEC 61851-22:2002 EN 61851-22:2002
Standard	TUV,CE Approved
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection

22KW Wall Mounted EV Charging Station

Model: MIDA-EVST-22KW / MIDA-EVSS-22KW



MIDA-EVST-22KW

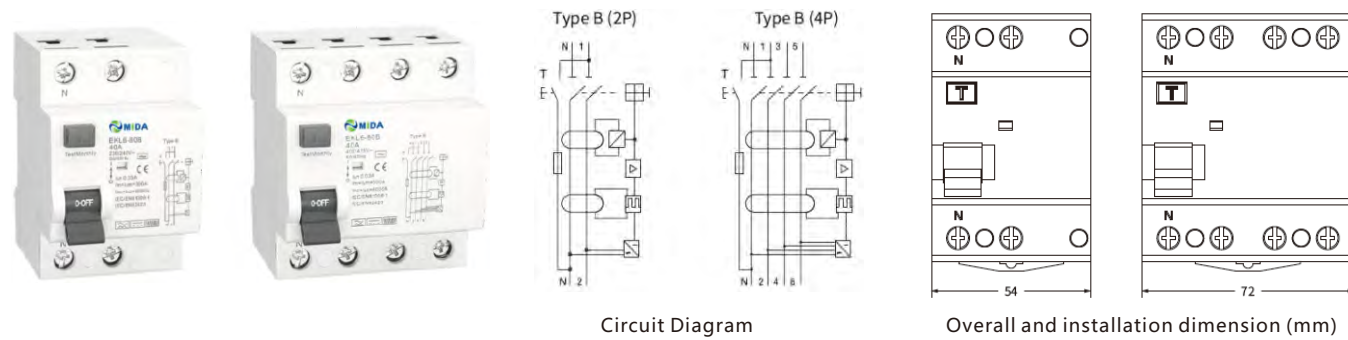
MIDA-EVSS-22KW

Electrical Performance

Item	22KW AC EV Charger Station
Product Model	MIDA-EVST-22KW / MIDA-EVSS-22KW
Rated Current	32Amp
Operation Voltage	AC 400V Three Phase
Rated frequency	50/60Hz
Leakage Protection	Type B RCD / RCCB
Shell Material	Aluminum Alloy
Status Indication	LED Status Indicator
Function	RFID Card
Atmospheric Pressure	80KPA ~ 110KPA
Relative Humidity	5%~95%
Operating Temperature	-30°C~+60°C
Storage Temperature	-40°C~+70°C
Protection Degree	IP55
Dimensions	350mm (L) X 215mm (W) X 110mm (H)
Weight	9.0 KG
Certification	IEC 61851-1:2010 EN 61851-1:2011 IEC 61851-22:2002 EN 61851-22:2002
Standard	TUV,CE Approved
Protection	1. Over and under frequency protection 2. Over Current Protection 3. Leakage Current Protection (restart recover) 4. Over Temperature Protection 5. Overload protection (self-checking recover) 6. Ground Protection and Short circuit protection 7. Over voltage and under-voltage protection 8. Lighting Protection

Type B RCD & RCCB

Residual Current Circuit Breaker



Features

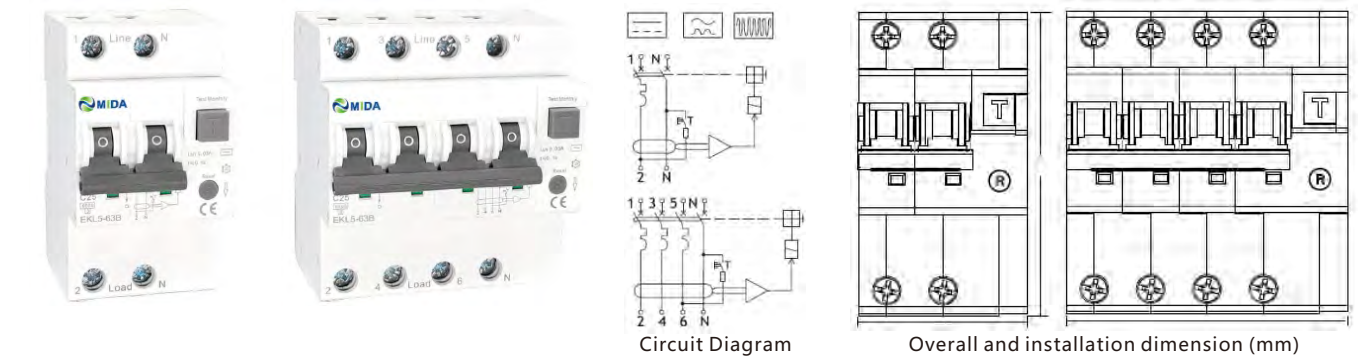
Protection against shock and fire hazards during EV charging requires detection of AC and DC residual fault currents. The Type B EV RCCB has been developed specifically for EV charging systems and can detect AC and DC residual currents in accordance with the requirements of IEC62955. This provides a lower cost option to the Type B RCD, and has been designed specifically for use in Mode 3 and Mode 4 EV charging applications.

Electrical Performance

Item	Type B RCD / Type B RCCB
Product Model	MIDA-80B
Wave form of the earth leakage sensed	B Type
Rated Current	16A , 25A , 32A , 40A , 63A , 80A , 100A
Poles	2Pole (1P+N) , 4Pole (3P+N)
Rated voltage Ue	2Pole: 240V ~ , 4Pole: 415V~
Insulation Voltage	500V
Rated frequency	50/60Hz
Rated residual operation current(I n)	30mA , 100mA , 300mA
Short-circuit current Inc= I c	10000A
SCPD fuse	10000
Break time under I n	≤0.1s
Dielectric test voltage at ind.Freq. for 1min	2.5kV
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles
Protection Degree	IP20
Ambient temperature	-5°C upto +40°C
Storage temperature	-25°C upto +70°C
Terminal connection type	Cable/Pin type busbar U-type busbar
Terminal size top/bottom for cable	25mm ² 18-3AWG
Terminal size top/bottom for busbar	25mm ² 18-3AWG
Tightening torque	2.5Nm 22In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom
Standard	IEC 61008-1:2010 EN 61008-1:2012 IEC 62423:2009 EN 62423:2012

Type B RCBO

B Type RCCB with Overcurrent Protection



Features

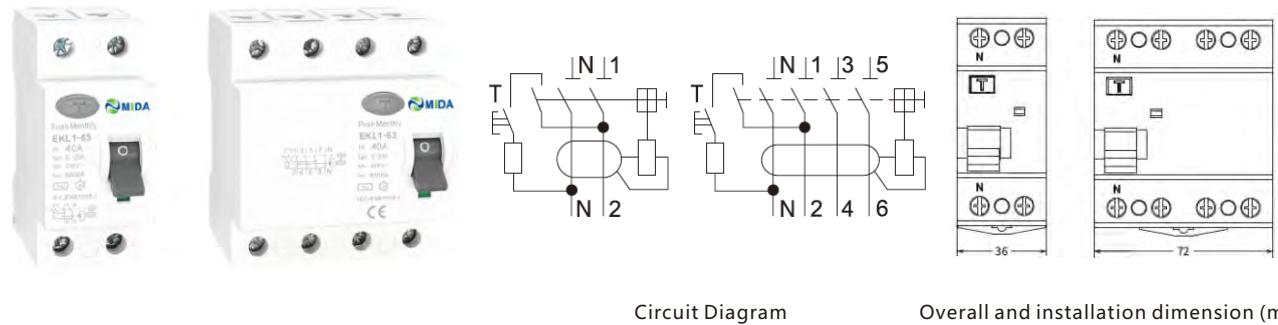
RCBOs type B grant protection to persons and machineries in presence of DC current and high frequency AC fault current. Among the several types of RCBOs, type B provide the upmost level of protection. Some applications' examples are: electrical installations protecting elevators, escalators, welding machines, electro-medicals' instrumentation, ventilation systems, PV systems, e-mobility charging stations.

Electrical Performance

Item	Type B RCBO	
Product Model	MIDA-80BO	
Rated Current	16A , 20A , 25A , 32A , 40A , 50A , 63A	
Poles	2Pole (1P+N)	4Pole (3P+N)
Rated voltage Ue	2Pole 240V~	4Pole 415V~
Reference Standard	IEC61009-1 , IEC62423	
Tripping Characteristics	B / C	
Insulation Voltage	500V	
Rated frequency	50/60Hz	
Rated residual operation current(I n)	30mA , 100mA , 300mA	
Short-circuit current Inc= I c	6000A	
Energy limiting class	3	
Rated impulse withstand voltage(1.5/50) Uimp	4000V	
Dielectric test voltage at ind.Freq. for 1min	2kV	
Electrical life	4000 Cycles	
Mechanical life	10000 Cycles	
Protection Degree	IP20	
Ambient temperature	-5°C upto +40°C	
Storage temperature	-25°C upto +70°C	
Terminal connection type	Cable/Pin type busbar U-type busbar	
Terminal size top/bottom for cable	25mm ² 18-3AWG	
Terminal size top/bottom for busbar	25mm ² 18-3AWG	
Tightening torque	2.5Nm 22In-lbs	
Mounting	On DIN rail EN60715(35mm) by means of fast clip device	
Connection	From top	
Combination with accessories	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX

Type A RCD & RCCB

Residual Current Circuit Breaker



Circuit Diagram

Overall and installation dimension (mm)

Features

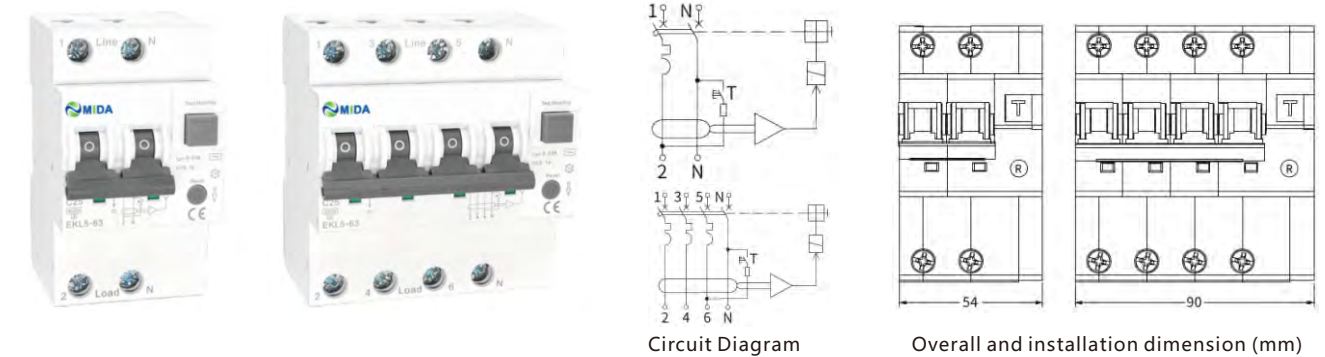
RCBOs type B grant protection to persons and machineries in presence of DC current and high frequency AC fault current. Among the several types of RCBOs, type B provide the upmost level of protection. Some applications' examples are: electrical installations protecting elevators, escalators, welding machines, electro-medicals' instrumentation, ventilation systems, PV systems, e-mobility charging stations.

Electrical Performance

Residual Current Circuit Breaker	Type A RCD / Type A RCCB
Residual Current Circuit Breaker	MIDA-80A
Product Model	A, AC,G,S
Type	16A , 25A , 32A , 40A , 63A , 80A ,100A
Rated Current	2P (1P+N) , 4P (3P+N)
Poles	2Pole: 240V ~ , 4Pole: 415V~
Rated voltage Ue	500V
Insulation Voltage	50/60Hz
Rated frequency	30mA , 100mA , 300mA
Rated residual operation current(I n)	6000A / 10000A
Short-circuit current Inc= I c	6000 / 10000
SCPD fuse	≤0.1s
Break time under I n	2.5kV
Dielectric test voltage at ind.Freq. for 1min	2,000 Cycles
Electrical life	4,000 Cycles
Mechanical life	IP20
Protection Degree	-5°C upto +40°C
Ambient temperature	-25°C upto +70°C
Storage temperature	Cable/Pin type busbar
Terminal connection type	U-type busbar
Terminal size top/bottom for cable	25mm ² 18-3AWG
Terminal size top/bottom for busbar	25mm ² 18-3AWG
Tightening torque	2.5Nm 22In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom
Standard	IEC 61008-1:2010 EN 61008-1:2012 IEC 61008-2-1:1994 EN 61008-2-1:1994

Type A RCBO

A Type RCCB with Overcurrent Protection



Circuit Diagram

Overall and installation dimension (mm)

Features

RCBOs type B grant protection to persons and machineries in presence of DC current and high frequency AC fault current. Among the several types of RCBOs, type B provide the upmost level of protection. Some applications' examples are: electrical installations protecting elevators, escalators, welding machines, electro-medicals' instrumentation, ventilation systems, PV systems, e-mobility charging stations.

Electrical Performance

Residual Current Circuit Breaker	Type A RCBO	
Product Model	MIDA-80AO	
Poles	2Pole (1P+N)	4Pole (3P+N)
Rated voltage Ue	2Pole 240V~	4Pole 415V~
Rated Current at 30°C (In)	6A , 8A ,10A ,13A , 16A , 20A , 25A , 32A , 40A , 50A , 63A	
Tripping Characteristics	B / C	
Insulation Voltage	500V	
Rated frequency	50/60Hz	
Rated residual operation current(I n)	10mA , 30mA , 100mA , 300mA	
Reference Standard	IEC61009-1 , IEC62423	
Short-circuit current Inc= I c	10000A	
Energy limiting class	3	
Rated impulse withstand voltage(1.5/50) Uimp	4000V	
Dielectric test voltage at ind.Freq. for 1min	2kV	
Electrical life	4000 Cycles	
Mechanical life	10000 Cycles	
Protection Degree	IP20	
Ambient temperature	-5°C upto +40°C	
Storage temperature	-25°C upto +70°C	
Terminal connection type	Cable/Pin type busbar U-type busbar	
Terminal size top/bottom for cable	25mm ² 18-3AWG	
Terminal size top/bottom for busbar	25mm ² 18-3AWG	
Tightening torque	2.5Nm 22In-lbs	
Mounting	On DIN rail EN60715(35mm) by means of fast clip device	
Connection	From top	
Combination with accessories	Auxiliary contact	EKM1-OF
	Alarm contact	EKM1-FB
	Shunt release	EKM1-MX

EVSE Protocol Controller

Residual Current Circuit Breaker



Cable Version
MIDA-EPC-EVC



Socket Version
MIDA-EPC-EVS

Features

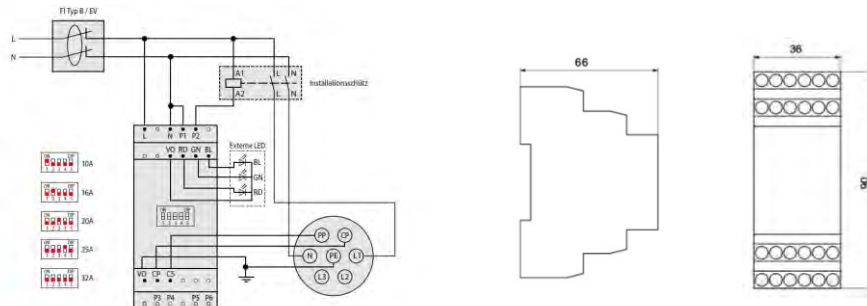
EVSE Protocol Controller (EPC) is the intelligent part of the Charge charging stations. It is the communication to control the charging procedure of electric vehicle ,and conforms to electric vehicle standard IEC61851 or SAEJ1772.Mounting onto standard rail according to DIN EN 60715

It is divided to cable version and socket version.

Terminal Assignment

Product Name	EVSE Protocol Controller
Maximun Charging Capacity Indication	10A ,16A ,20A,25A,32A (Adjustable)
Product Model	MIDA-EPC-EVC (Cable Version) , MIDA-EPC-EVS (Socket Version)
L	This is where the AC 'live' or 'line' connection is made (90-264V @ 50/60Hz AC)
N	This is where the AC 'neutral' connection is made (90-264V @ 50/60 Hz AC)
P1	Relay 1 live from RCCB
P2	Reley 1 live from RCCB
GN	For external L ED connection for green indication(5V 30mA)
BL	For external LED connection for blue indication (5V 30mA)
RD	For external L ED connation for red indication (5V 30mA)
VO	This is where the 'ground' connoction is made
CP	This connects to the CP connector on the IEC61851/J1772 EVSE connector
CS	This connects to the PP connector on the IEC61851 EVSE connector
P5	Provides 12V continuously to enersise solenoid for hatch lock
P6	This provides 12V 300mA for 500 ms to engage the lock for motorised lock
FB	Reads lock feedback for motorised locks
12V	Power: 12V
FA	Fault
TE	Test
Standard	IEC 61851 , IEC 62321

Appearance and Installation Size



EVSE Protocol Controller

Residual Current Circuit Breaker



Cable Version
With RFID
MIDA-EPC-EVCD



Socket Verison
MIDA-EPC-EVSD



Socket Verison
MIDA-EPC-EVCSU



Socket Verison
MIDA-EPC-EVSU

Features

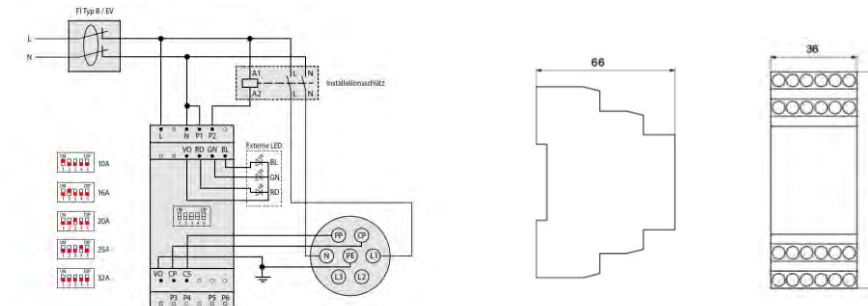
EVSE Protocol Controller (EPC) is the intelligent part of the Charge charging stations. It is the communication to control the charging procedure of electric vehicle ,and conforms to electric vehicle standard IEC61851 or SAEJ1772.Mounting onto standard rail according to DIN EN 60715

It is divided to cable version and socket version.

Terminal Assignment

Product Name	EVSE Protocol Controller
Maximun Charging Capacity Indication	10A ,16A ,20A,25A,32A (Adjustable)
Product Model	MIDA-EPC-EVCD , MIDA-EPC-EVSD , MIDA-EPC-EVCU , MIDA-EPC-EVSU
L	This is where the AC 'live' or 'line' connection is made (90-264V @ 50/60Hz AC)
N	This is where the AC 'neutral' connection is made (90-264V @ 50/60 Hz AC)
P1	Relay 1 live from RCCB
P2	Reley 1 live from RCCB
GN	For external L ED connection for green indication(5V 30mA)
BL	For external LED connection for blue indication (5V 30mA)
RD	For external L ED connation for red indication (5V 30mA)
VO	This is where the 'ground' connoction is made
CP	This connects to the CP connector on the IEC61851/J1772 EVSE connector
CS	This connects to the PP connector on the IEC61851 EVSE connector
P5	Provides 12V continuously to enersise solenoid for hatch lock
P6	This provides 12V 300mA for 500 ms to engage the lock for motorised lock
FB	Reads lock feedback for motorised locks
12V	Power: 12V
FA	Fault
TE	Test
Standard	IEC 61851 , IEC 62321

Appearance and Installation Size



EV Plug Holder



J1772 Type 1 Plug Dummy Holder



J1772 Type 1 Plug Dummy Holder



J1772 Type 1 Plug Dummy Holder



Type 2 Female Plug Dummy Holder



Type 2 Female Plug Dummy Holder



Type 2 Female Plug Dummy Holder



CCS Combo 1 Plug Dummy Holder



CCS Combo 2 Plug Dummy Holder



CCS Combo 2 Plug Dummy Holder
With Micro Switch Detect



Japan CHAdeMO Plug Dummy Holder



GB/T AC Charger Plug Dummy Holder



GB/T DC Charger Plug Dummy Holder

EV Accessories



Type 1 Inlet Socket With Cable



Type 2 Male Inlet Socket With Cable



Type 2 Male Inlet Socket For Motor



Type 2 to Type 1 EV Socket
EV Converter Cable



Type 1 to Type 2 Male Socket
EV Converter Cable



Type 1 to Type 1 EV Socket
EV Adapter Cable



CCS Combo 1 Inlet Socket With Cable



CCS Combo 2 Inlet Socket With Cable



CHAdeMO Inlet Socket With Cable



CCS Combo 1 Plug With Cable



CCS Combo 2 Plug With Cable



Japan CHAdeMO Plug With Cable