Automatic Transfer Switch Equipment
M2Rxxx-110/2

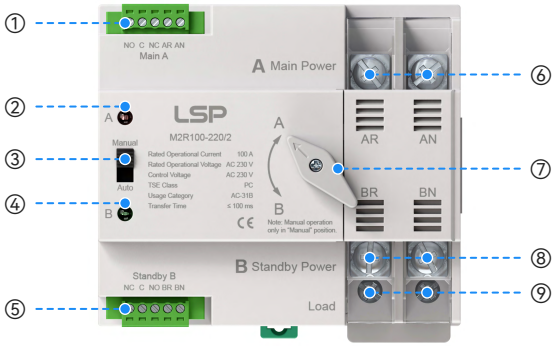
- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic transfer time within 100 milliseconds
- Compliance: IEC 60947-6-1

The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6 A to 100 A at 50/60 Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

Technical Data

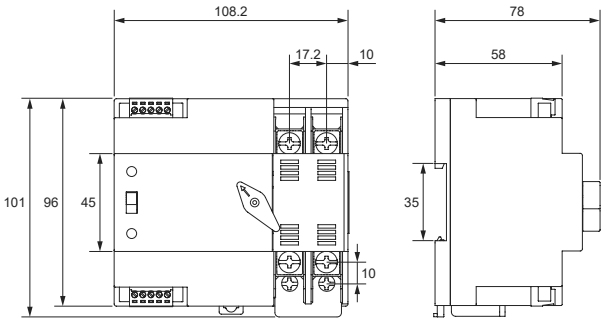
M2Rxxx-110/2		M2R40-110/2	M2R63-110/2	M2R100-110/2
IEC Electrical				
Rated Operational Voltage (AC)	U_e		110 V	
Case Grade			100 A	
Rated Operational Current	I_e	40 A	63 A	100 A
Rated Insulation Voltage	U_i		690 V	
Rated Impulse Withstand Voltage	U_{imp}		8 kV	
Rated Frequency			50/60 Hz	
Automatic Transfer Time			≤ 100 ms	
Pole Number			2P	
Usage Category			40 A / 63 A: AC-33iB 100A: AC-31B	
Rated Conditional Short-Circuit Current	I_q		50 kA	
Short-Circuit Protection Device (Fuse)			RT16-00-63A	
Rated Impulse Withstand Voltage			8 kV	
TSE Class			PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current	
Control Circuit			Rated Control Voltage Us: AC 110 V, 50/60 Hz Normal Working Conditions: 85% - 110% Us	
Auxiliary Circuit			110 V, 50/60 Hz, I_e = 5 A	
Overvoltage / Undervoltage Protection Range			Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)	
Mechanical Life			≥ 5000 Times	
Electrical Life			≥ 2000 Times	
Enclosure Material			PA66 FR	
Order Information				
Ordering Code				
M2Rxxx-110/2		4001220	6301220	1011220

Product Overview



① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
② Main Power Indicator
③ Manual / Automatic Selector Switch
④ Standby Power Indicator
⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
⑥ Main Power Terminals (Main Power Input)
⑦ Manual Rotary Switch
⑧ Standby Power Terminals (Standby Power Input)
⑨ Load Terminals (Power Output to Load)

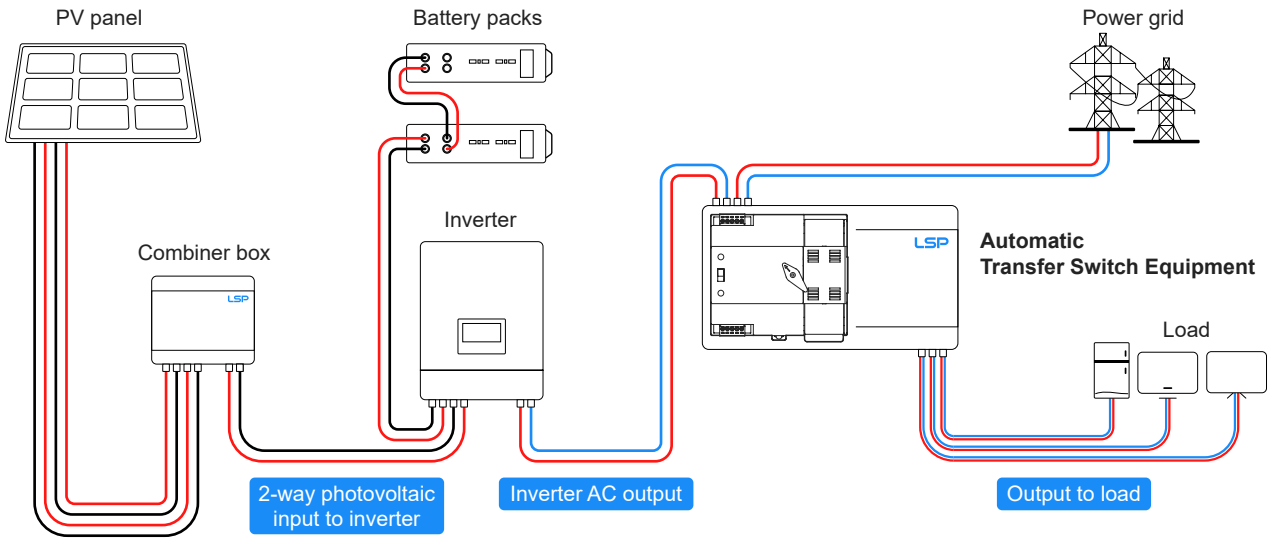
Dimensions & Packaging



[mm]

Packing Information	
Units per Carton	18 pcs
Product / Inner box / Carton Weight	0.55 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	9.9 kg / 11.3 kg
Dimensions (H × W × L)	[270 × 235 × 350 mm]

Easy Installation Instructions



Automatic Transfer Switch Equipment
M2Rxxx-110/3

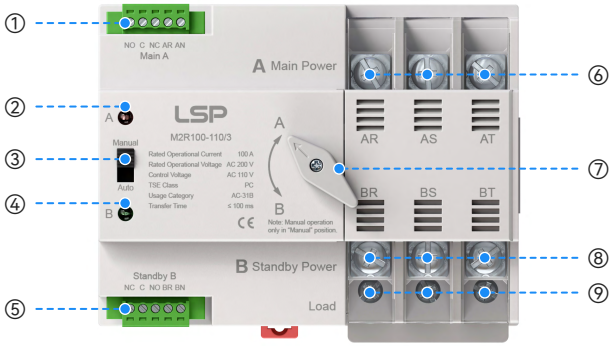
- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic transfer time within 100 milliseconds
- Compliance: IEC 60947-6-1

The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6 A to 100 A at 50/60 Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

Technical Data

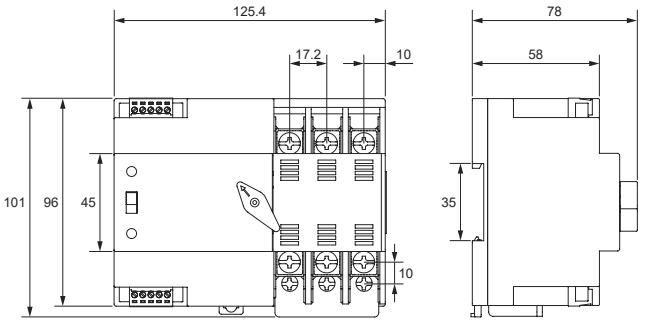
M2Rxxx-110/3		M2R40-110/3	M2R63-110/3	M2R100-110/3
IEC Electrical				
Single-Phase Rated Voltage (Phase-to-Neutral) (AC)			110 V	
Rated Operational Voltage (Phase-to-Phase) (AC)	U_e		200 V	
Case Grade			100 A	
Rated Operational Current	I_e	40 A	63 A	100 A
Rated Insulation Voltage	U_i		690 V	
Rated Impulse Withstand Voltage	U_{imp}		8 kV	
Rated Frequency			50/60 Hz	
Automatic Transfer Time			≤ 100 ms	
Pole Number			3P	
Usage Category			40 A / 63 A: AC-33iB 100A: AC-31B	
Rated Conditional Short-Circuit Current	I_q		50 kA	
Short-Circuit Protection Device (Fuse)			RT16-00-63A	
Rated Impulse Withstand Voltage			8 kV	
TSE Class			PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current	
Control Circuit			Rated Control Voltage Us: AC 110 V, 50/60 Hz Normal Working Conditions: 85% - 110% Us	
Auxiliary Circuit			110 V, 50/60 Hz, I_e = 5 A	
Overvoltage / Undervoltage Protection Range			Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)	
Mechanical Life			≥ 5000 Times	
Electrical Life			≥ 2000 Times	
Enclosure Material			PA66 FR	
Order Information				
Ordering Code				
M2Rxxx-110/3		4001320	6301320	1011320

Product Overview



① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
② Main Power Indicator
③ Manual / Automatic Selector Switch
④ Standby Power Indicator
⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
⑥ Main Power Terminals (Main Power Input)
⑦ Manual Rotary Switch
⑧ Standby Power Terminals (Standby Power Input)
⑨ Load Terminals (Power Output to Load)

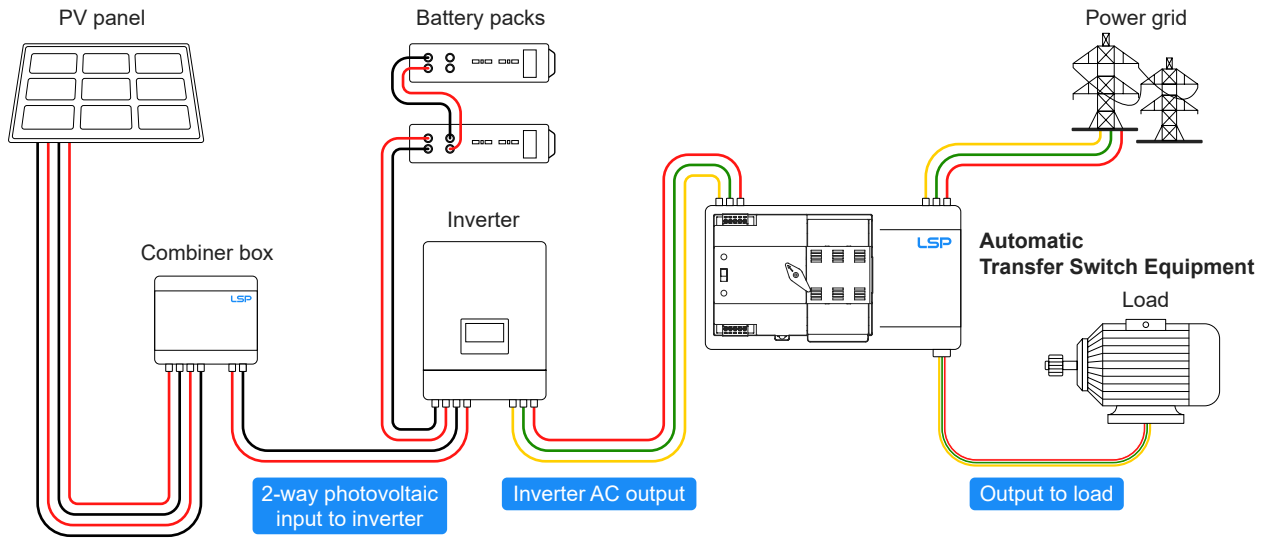
Dimensions & Packaging



[mm]

Packing Information	
Units per Carton	12 pcs
Product / Inner box / Carton Weight	0.68 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	8.16 kg / 8.9 kg
Dimensions (H × W × L)	[195 × 305 × 350 mm]

Easy Installation Instructions



Automatic Transfer Switch Equipment
M2Rxxx-110/4

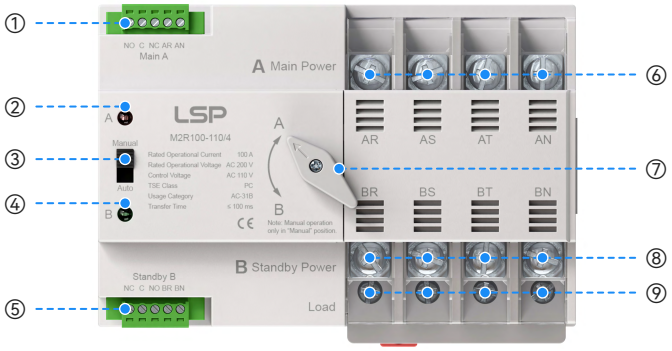
- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic transfer time within 100 milliseconds
- Compliance: IEC 60947-6-1

The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6 A to 100 A at 50/60 Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

Technical Data

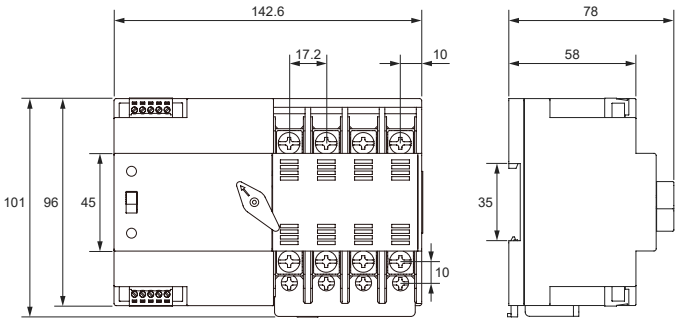
M2Rxxx-110/4		M2R40-110/4	M2R63-110/4	M2R100-110/4
IEC Electrical				
Single-Phase Rated Voltage (Phase-to-Neutral) (AC)			110 V	
Rated Operational Voltage (Phase-to-Phase) (AC)	U_e		200 V	
Case Grade			100 A	
Rated Operational Current	I_e	40 A	63 A	100 A
Rated Insulation Voltage	U_i		690 V	
Rated Impulse Withstand Voltage	U_{imp}		8 kV	
Rated Frequency			50/60 Hz	
Automatic Transfer Time			≤ 100 ms	
Pole Number			4P	
Usage Category			40 A / 63 A: AC-33iB 100A: AC-31B	
Rated Conditional Short-Circuit Current	I_q		50 kA	
Short-Circuit Protection Device (Fuse)			RT16-00-63A	
Rated Impulse Withstand Voltage			8 kV	
TSE Class			PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current	
Control Circuit			Rated Control Voltage Us: AC 110 V, 50/60 Hz Normal Working Conditions: 85% - 110% Us	
Auxiliary Circuit			110 V, 50/60 Hz, I_e = 5 A	
Overvoltage / Undervoltage Protection Range			Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)	
Mechanical Life			≥ 5000 Times	
Electrical Life			≥ 2000 Times	
Enclosure Material			PA66 FR	
Order Information				
Ordering Code				
M2Rxxx-110/4		4001420	6301420	1011420

Product Overview

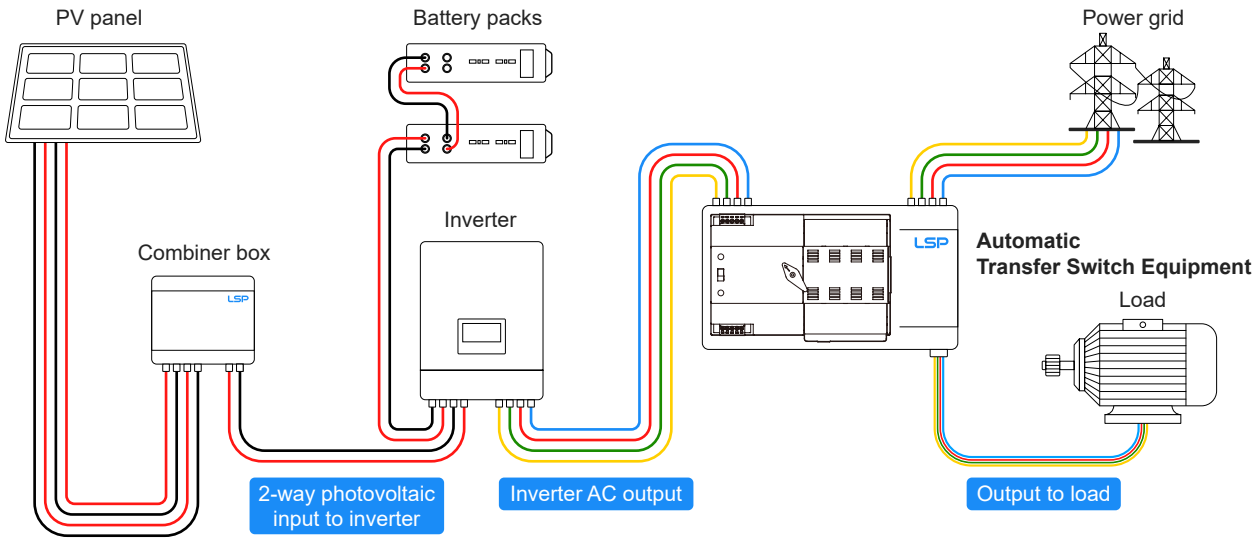


① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
② Main Power Indicator
③ Manual / Automatic Selector Switch
④ Standby Power Indicator
⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
⑥ Main Power Terminals (Main Power Input)
⑦ Manual Rotary Switch
⑧ Standby Power Terminals (Standby Power Input)
⑨ Load Terminals (Power Output to Load)

Dimensions & Packaging



[mm]

Packing Information	
Units per Carton	12 pcs
Product / Inner box / Carton Weight	0.74 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	8.88 kg / 9.5 kg
Dimensions (H × W × L)	[195 × 305 × 350 mm]

Easy Installation Instructions