

STARMEX Inverter Multisplit - Indoor Unit			MSXY-FP10, 13, 18, 20, 24VG
No.	Symptom	Operation indicator lamp	Description
1	Indoor unit and outdoor unit do not operate	Upper lamp blinks. 0.5-second ON ●○●○●○●○ 0.5-second OFF	Miswiring or serial signal ■ Check miswiring and serial signal error
2		Upper lamp blinks. 2-time blink ●○●○●○●○●○●○ 2.5-second OFF	Indoor coil thermistor Room temperature thermistor ■ Check indoor coil thermistor and room temperature thermistor
3		Upper lamp blinks. 3-time blink ●○●○●○●○●○●○●○●○ 2.5-second OFF	Indoor fan motor ■ Check indoor fan motor
4		Upper lamp blinks. 4-time blink ●○●○●○●○●○●○●○●○●○ 2.5-second OFF	Indoor control system ■ Replace indoor electronic control P.C. board
5		Upper lamp blinks. 5-time blink ●○●○●○●○●○●○●○●○●○ 2.5-second OFF	Outdoor power system ■ Check inverter/ compressor ■ Check stop valve
6		Upper lamp blinks. 6-time blink ●○●○●○●○●○●○●○●○●○ 2.5-second OFF	Outdoor thermistors ■ Check outdoor thermistor
7		Upper lamp blinks. 7-time blink ●○●○●○●○●○●○●○●○●○ 2.5-second OFF	Outdoor control system ■ Replace the inverter P.C. board or the outdoor electronic control P.C. board
8		Upper lamp blinks. 14-time blink or more ●○●○●○●○●○●○●○●○●○●○●○●○ 2.5-second OFF	Other abnormality ■ Check stop valve ■ Check the 4-way valve ■ Confirm the abnormality in detail using the failure mode recall function for outdoor unit
9		Upper lamp lights up ●	Outdoor control system ■ Check the blinking pattern of the LED on the inverter P.C. board or the outdoor electronic control P.C. board

STARME X Inverter Multisplit - Outdoor Unit				MXY-2H20VF
No.	Symptom	Indication		Description
		LED1 (Red)	LED2 (Yellow)	
1	Outdoor unit does not operate	Lit	Once	LEV and drain pump. <ul style="list-style-type: none"> <li>▪ Check LEV</li> <li>▪ Check drain pump</li> </ul>
2		Lit	Twice	Outdoor power system <ul style="list-style-type: none"> <li>▪ Check the connection of the compressor connecting wire.</li> <li>▪ Check Inverter/ Compressor</li> <li>▪ Check stop valve</li> </ul>
3		Lit	3 times	Discharge temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>
4		Lit	4 times	Fin temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>
				P.C board temperature thermistor <ul style="list-style-type: none"> <li>▪ Replace the inverter P.C. board.</li> </ul>
5		Lit	5 times	Ambient temperature thermistor Outdoor heat exchanger temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>
6		Lit	7 times	Nonvolatile memory data <ul style="list-style-type: none"> <li>▪ Replace the inverter P.C. board</li> </ul>
7		Lit	17 times	Outdoor refrigerant system abnormality <ul style="list-style-type: none"> <li>▪ Check for gas leak in a connecting pipe</li> <li>▪ Check the stop valve/ LEV</li> <li>▪ Check outdoor refrigerant circuit</li> </ul>
8	Not lit	Not lit	<ul style="list-style-type: none"> <li>▪ Thermal protector protection</li> <li>▪ Thermal protector is faulty</li> <li>▪ Discharge temperature thermistor is not connected to the compressor</li> <li>▪ Refrigerant leaks from the indoor or outdoor unit</li> <li>▪ Defective operation of the stop valve (Not full open).</li> <li>▪ Locked compressor</li> </ul>	

STARME X Inverter Multisplit - Outdoor Unit				MXY-2H20VF
No.	Symptom	Indication		Description
		LED1 (Red)	LED2 (Yellow)	
9	Outdoor unit stops and restarts 3 minutes later' is repeated	Twice	Not lit	Overcurrent <ul style="list-style-type: none"> <li>▪ Reconnect compressor connector</li> <li>▪ Check inverter/ compressor</li> <li>▪ Check stop valve</li> </ul>
10		3 times	Not lit	Discharge temperature protection <ul style="list-style-type: none"> <li>▪ Check the amount of gas and the refrigerant circuit.</li> <li>▪ Check LEV</li> </ul>
11		4 times	Not lit	Fin temperature protection P.C. board temperature protection <ul style="list-style-type: none"> <li>▪ Check the refrgierant circuit and the refrigerant amount</li> <li>▪ Check outdoor fan motor</li> </ul>
12		5 times	Not lit	High pressure protection <ul style="list-style-type: none"> <li>▪ Check the amount of gas and therefrigerant circuit</li> <li>▪ Check the stop valve</li> </ul>
13		9 times	Not lit	Bus-bar voltage protection <ul style="list-style-type: none"> <li>▪ Replace the inverter P.C. board</li> </ul>
14		13 times	Not lit	Outdoor fan motor <ul style="list-style-type: none"> <li>▪ Check outdoor fan motor</li> </ul>
15		8 times	Not lit	Current sensor protection <ul style="list-style-type: none"> <li>▪ Replace the inverter P.C. board</li> </ul>
16		10 times	Not lit	Compressor <ul style="list-style-type: none"> <li>▪ Reconnect compressor connector</li> <li>▪ Check inverter/ compressor</li> <li>▪ Check the stop valve.</li> </ul>

STARME X Inverter Multisplit - Outdoor Unit				MXY-2H20VF	
No.	Symptom	Indication		Description	
		LED1 (Red)	LED2 (Yellow)		
17	Outdoor unit operates	Once	Lit	Primary current protection Secondary current protection Defrosting in cooling These symptoms do not mean any abnormality of the product, but check the following points.	
18		Twice	Lit		<ul style="list-style-type: none"> <li>■ Check if indoor filters are clogged</li> <li>■ Check if refrigerant is short</li> <li>■ Check if indoor/outdoor unit air circulation is short cycled</li> </ul>
19		3 times	Lit	Discharge temperature protection <ul style="list-style-type: none"> <li>■ Check the refrigerant circuit and the refrigerant amount</li> <li>■ Check LEV</li> <li>■ Check outdoor thermistors</li> </ul>	
20		4 times	Lit	Low discharge temperature protection <ul style="list-style-type: none"> <li>■ Check LEV</li> <li>■ Check the refrigerant circuit and the refrigerant amount</li> </ul>	
21		5 times	Lit	Cooling high pressure protection This symptom does not mean any abnormality of the product, but check the following points. <ul style="list-style-type: none"> <li>■ Check if indoor unit filters are clogged</li> <li>■ Check if refrigerant is short</li> <li>■ Check if indoor/outdoor unit air circulation is short cycled</li> </ul>	
22		8 times	Lit	Converter protection <ul style="list-style-type: none"> <li>■ Check the voltage of power supply</li> <li>■ Replace the inverter P.C. board</li> </ul>	
23		Outdoor unit operates normally	7 times	Lit	Cooling evaporating temperature protection <ul style="list-style-type: none"> <li>■ This symptom does not mean any abnormality of the product</li> </ul>
24			9 times	Lit	Inverter check mode
25	Lit		Lit	Normal	

STARMEX Inverter Multisplit - Outdoor Unit				MXY-3H28VG, MXY-4H33VG, MXY-4H38VG, MXY-5H48VG	
No.	Symptom	Indication		Description	
		LED1 (Red)	LED2 (Yellow)		
1	Outdoor unit does not operate	Lit	Once	LEV and drain pump. <ul style="list-style-type: none"> <li>▪ Check LEV</li> <li>▪ Check drain pump</li> </ul>	
2		Lit	Twice	Outdoor power system <ul style="list-style-type: none"> <li>▪ Check the connection of the compressor connecting wire.</li> <li>▪ Check Inverter/ Compressor</li> <li>▪ Check stop valve</li> </ul>	
3		Lit	3 times	Discharge temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>	
4		Lit	4 times	Fin temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>	
				P.C board temperature thermistor <ul style="list-style-type: none"> <li>▪ Replace the control P.C. board.</li> </ul>	
5		Lit	5 times	Ambient temperature thermistor Outdoor heat exchanger temperature thermistor <ul style="list-style-type: none"> <li>▪ Check outdoor thermistors</li> </ul>	
6		Lit	6 times	Zero cross detecting circuit (Outdoor control P.C. board) <ul style="list-style-type: none"> <li>▪ Replace outdoor control P.C. board</li> </ul>	
7		Lit	7 times	Outdoor control system <ul style="list-style-type: none"> <li>▪ Replace outdoor control P.C. board</li> </ul>	
8		Lit	8 times	Current sensor <ul style="list-style-type: none"> <li>▪ Replace outdoor power P.C. board</li> </ul>	
9		Lit	11 times	Communication error between P.C. boards <ul style="list-style-type: none"> <li>▪ Check the connecting wire between outdoor control P.C. board and outdoor power P.C. board</li> </ul>	
10		Lit	12 times	Zero cross detecting circuit (Outdoor power P.C. board) <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>	
11		Lit	13 times	Current sensor <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>	
12		Lit	14 times	Voltage sensor <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>	
13	Lit	15 times	Relay operation <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>		

STARMEX Inverter Multisplit - Outdoor Unit				MXY-3H28VG, MXY-4H33VG, MXY-4H38VG, MXY-5H48VG	
No.	Symptom	Indication		Description	
		LED1 (Red)	LED2 (Yellow)		
14	Outdoor unit stops and restarts 3 minutes later' is repeated	Twice	Not lit	IPM protection Lock protection <ul style="list-style-type: none"> <li>▪ Reconnect compressor conenctor</li> <li>▪ Check inverter/ compressor</li> <li>▪ Check stop valve</li> <li>▪ Check the power module (PAM module)</li> </ul>	
15		3 times	Not lit	Discharge temperature protection <ul style="list-style-type: none"> <li>▪ Check the amount of gas and refrigerant circuit</li> <li>▪ Check LEV</li> </ul>	
16		4 times	Not lit	Fin temperature protection P.C. board temperature protection <ul style="list-style-type: none"> <li>▪ Check refrigerant circuit and rfrigerant amount</li> <li>▪ Check outdoor fan motor</li> </ul>	
17		5 times	Not lit	High pressure protection Thermal protector protection <ul style="list-style-type: none"> <li>▪ Check around gas and the refrigerant circuit</li> <li>▪ Check stop valve</li> <li>▪ There is short cycle at outdoor unit</li> <li>▪ High pressure switch/ thermal protector is faulty</li> <li>▪ The connector is disconnected or poorly connected</li> <li>▪ Discharge temperature thermistor is not connected to the compressor</li> <li>▪ Refrigerant leaks from the indoor unit or outdoor unit</li> <li>▪ Defective operation of stop valve (not full open)</li> <li>▪ Locked compressor</li> </ul>	
18		6 times	Not lit	Pre-heating protection <ul style="list-style-type: none"> <li>▪ Reconnect compressor connector</li> <li>▪ Check inverter/ compressor</li> <li>▪ Check the power module</li> </ul>	
19		8 times	Not lit	Converter protection <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>	

STARMEX Inverter Multisplit - Outdoor Unit				MXY-3H28VG, MXY-4H33VG, MXY-4H38VG, MXY-5H48VG	
No.	Symptom	Indication		Description	
		LED1 (Red)	LED2 (Yellow)		
20	Outdoor unit stops and restarts 3 minutes later' is repeated	9 times	Not lit	Bus-bar voltage protection <ul style="list-style-type: none"> <li>▪ Check the voltag of power supply</li> <li>▪ Replace the outdoor power P.C. boad or the outdoor control P.C. board</li> <li>▪ Check bus-bar voltage</li> </ul>	
21		11 times	Not lit	Low out side temperature protection(cooling)	
22		13 times	Not lit	Outdoor fan motor <ul style="list-style-type: none"> <li>▪ Check outdoor fan motor</li> </ul>	
23		Lit	8 times	Current sensor protection <ul style="list-style-type: none"> <li>▪ Replace outdoor power P.C. board</li> </ul>	
24		Lit	11 times	Communication between P.C. boards protection <ul style="list-style-type: none"> <li>▪ Check the connecting wire between outdoor control P.C. board and outdoor power P.C. board</li> </ul>	
25		Lit	12 times	Zero cross detecting circuit (Outdoor power P.C. board) <ul style="list-style-type: none"> <li>▪ Replace the outdoor power P.C. board</li> </ul>	
26	Outdoor unit operates	Once	Lit	Primary current protection Defrosting in cooling These symptoms do not mean any abnormality of the product, but check the following points.	
27		Twice	Lit	<ul style="list-style-type: none"> <li>▪ Check if indoor filters are clogged</li> <li>▪ Check if refrigerant is short</li> <li>▪ Check if indoor/ outdoor unit air circulation is short cycled</li> </ul>	
28		3 times	Lit	Discharge temperature protection <ul style="list-style-type: none"> <li>▪ Check refrigeran circuit and rfrigerant amount</li> <li>▪ Check LEV</li> <li>▪ Check outdoor thermistors</li> </ul>	
29		4 times	Lit	Low discharge temperature protection <ul style="list-style-type: none"> <li>▪ Check LEV</li> <li>▪ Check refrigerant circuit and refrigerant amount</li> </ul>	
30		5 times	Lit	Cooling high pressure protection These symptoms do not mean any abnormality of the product, but check the following points. <ul style="list-style-type: none"> <li>▪ Check if indoor filters are clogged</li> <li>▪ Check if refrigerant is short</li> <li>▪ Check if indoor/ outdoor unit air circulation is short cycled</li> </ul>	

STARMEX Inverter Multisplit - Outdoor Unit				MXY-3H28VG, MXY-4H33VG, MXY-4H38VG, MXY-5H48VG	
No.	Symptom	Indication		Description	
		LED1 (Red)	LED2 (Yellow)		
31	Outdoor unit operates	7 times	Lit	High Low Pressure bypass valve Cooling evaporating temperature drop prevention control These symptoms do not mean any abnormality of the product, but check the following points. <ul style="list-style-type: none"> <li>▪ Check the indoor filters are not clogged</li> <li>▪ Check there is sufficient refrigerant</li> <li>▪ Check if indoor/ outdoor unit air circulation is not short cycled</li> </ul>	
32	Outdoor unit operates normally	8 times	Lit	Cooling evaporating temperature protection	
33		9 times	Lit	This symptom does not mean any abnormality of the product.	
34		Lit	Lit	Inverter check mode	
				Normal	