

No.	IDU Display	ODU LED Flash	Error Details	Error Display Time	Error Recover	Machine Operating	Probable Trouble Location
1	EE	25	Indoor machine EE fault	Immediately displayed after error is detected	No automatic recover, disappear after power is switched off and on	Whole machine shutdown	Indoor main control board, component failure or faulty soldering
2	E1	26	Indoor fan fault	Immediately displayed if indoor fan speed is ≤ 240 rpm for 30s	No automatic recover, disappear after power is switched off and on	Whole machine shutdown	1.Connection wire of indoor fan motor, poor connection or broken 2.Indoor fan motor, broken 3.Socket faulty soldering or disconnection from PCB 4.Indoor main control board, component failure or faulty soldering
3	E2	27	Indoor fan zero-crossing detection fault	Immediately displayed after error detected	No automatic recover, disappear after power is switched off and on	Whole machine shutdown	Indoor main control board, component failure or faulty soldering
4	E3	28	Indoor coil temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear after error recovered	Compressor maximum frequency is limited to 40-50Hz. When 2 sensors except discharge sensor are failed at the same time, the ODU will be shut down, while IDU keeps running and displays the error code. (Priority:E3, E4, F5, F7, F8)	1.Indoor coil temperature sensor, open or short circuit 2.Connector of indoor coil temperature sensor, faulty soldering or disconnection from PCB 3.Indoor main control board, component failure or faulty soldering
5	E4	29	Indoor ambient temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear after error recovered	Compressor maximum frequency is limited to 40-50Hz. When 2 sensors except discharge sensor are failed at the same time, the ODU will be shut down, while IDU keeps running and displays the error code. (Priority:E3, E4, F5, F7, F8)	1.Indoor ambient temperature sensor, open or short circuit 2.Connector of indoor ambient temperature sensor, false soldering or disconnection from PCB 3.Indoor main control board, component failure or faulty soldering
6	E0	1	Outdoor EE fault	Immediately displayed after error is detected	No automatic recover, disappear after power is switched off and on	ODU machine shutdown, Indoor fan operating	Main outdoor control board, master chip is faulty
7	E6	2	Indoor and outdoor machine communication fault	Not receiving correct communication data for 2 minutes	Disappear immediately when communication is normal	ODU shut down, Indoor fan operating	1.Connection cable between indoor and outdoor, poor connection, broken or too long(over 20 meters) 2.Wrong sequence of cable connection at the terminal of indoor or outdoor 3.Indoor main control board, component failure or faulty soldering 4.Outdoor main control board, component failure or faulty soldering
8	F1	4	Compressor starting abnormal	After 3 consecutive fault is detected, ODU powered off and on. Displayed if two consecutive fault is detected again	No automatic recover, disappear after power is switched off and on	ODU shut down, Indoor fan operating	1.Connection wire of compressor, broken or poor connection 2.Compressor, broken 3.Outdoor main control board, component failure or faulty soldering 4.Power voltage is too low
9	F2	5	Compressor drive fault	After 3 consecutive fault is detected, ODU powered off and on. Displayed if two consecutive fault is detected again	No automatic recover, disappear after power is switched off and on	ODU shut down, Indoor fan operating	1.Connection wire of compressor, broken or poor connection 2.Compressor, broken 3.Outdoor main control board, component failure or faulty soldering 4.Power voltage is too low
10	F3	6	IPM module fault	After 3 consecutive fault is detected, ODU powered off and on. Displayed if two consecutive fault is detected again	No automatic recover, disappear after power is switched off and on	ODU shut down, Indoor fan operating	1.Connection wire of compressor, broken or poor connection 2.Compressor, broken 3.Outdoor main control board, component failure or faulty soldering 4.Power voltage is too low
11	F5	8	Discharge temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear immediately after error recovered	ODU shut down, Indoor fan operating	1.Discharge temperature sensor, open or short circuit 2.Connector of discharge temperature sensor, poor connection or broken 3.Outdoor main control board, component failure or faulty soldering
12	F6	9	Suction temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear immediately after error recovered	Compressor maximum frequency is limited to 40-50Hz. When 2 sensors except discharge sensor are failed at the same time, the ODU will be shut down, while IDU keeps running and displays the error code. (Priority:E3, E4, F5, F7, F8)	1.Discharge temperature sensor, open or short circuit 2.Connector of discharge temperature sensor, poor connection or broken 3.Outdoor main control board, component failure or faulty soldering
13	F7	10	Outdoor coil temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear immediately after error recovered	Compressor maximum frequency is limited to 40-50Hz. When 2 sensors except discharge sensor are failed at the same time, the ODU will be shut down, while IDU keeps running and displays the error code. (Priority:E3, E4, F5, F7, F8)	1.Discharge temperature sensor, open or short circuit 2.Connector of discharge temperature sensor, poor connection or broken 3.Outdoor main control board, component failure or faulty soldering
14	F8	11	Outdoor ambient temperature sensor fault	When an open or short circuit of the sensor is detected	Disappear immediately after error recovered	Compressor maximum frequency is limited to 40-50Hz. When 2 sensors except discharge sensor are failed at the same time, the ODU will be shut down, while IDU keeps running and displays the error code. (Priority:E3, E4, F5, F7, F8)	1.Discharge temperature sensor, open or short circuit 2.Connector of discharge temperature sensor, poor connection or broken 3.Outdoor main control board, component failure or faulty soldering
15	F9	12	Outdoor DC fan fault	After 4 consecutive fault is detected, ODU powered off and on. Displayed if 4 consecutive fault is detected again	Disappear after 3 min	ODU shut down, Indoor fan operating	1.Connection wire of outdoor fan motor, poor connection or broken 2.Outdoor fan motor, broken 3.Socket of outdoor fan motor, faulty soldering or disconnection from PCB 4.Outdoor main control board, component failure or faulty soldering
16	P1	13	Outdoor machine AC current protection	Displayed when outdoor AC overcurrent	Disappear after 2min	ODU shut down, Indoor fan operating	1.Outdoor fan motor or its capacitor, failure or speed too low 2.Poor ventilation of condenser, too dusty 3.System blockage 4.Compressor, failure 5.Outdoor main control board, component failure or faulty soldering
17	P2	14	Compressor phase current protection	Displayed when compressor overcurrent	Disappear after 2min	ODU shut down, Indoor fan operating	1.Outdoor fan motor or its capacitor, failure leads to low fan speed 2.Poor ventilation of condenser, too dusty 3.System blockage 4.Compressor, failure 5.Outdoor main control board, component failure or faulty soldering
18	P3	15	Outdoor unit over-high/over-low AC voltage protection	Displayed when outdoor AC voltage is $\geq 300V$ or $\leq 90V$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when AC voltage is $\leq 290V$ and $\geq 100V$.	ODU shut down, Indoor fan operating	1.Power voltage, less than 100V or higher than 300V 2.Outdoor main control board, component failure or faulty soldering
19	P4	16	DC overvoltage or undervoltage protection	Displayed when DC voltage is $\geq 440V$ or $\leq 110V$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when DC voltage is $\leq 430V$ and $\geq 130V$.	ODU shut down, Indoor fan operating	1.Power voltage, less than 100V or higher than 300V 2.Outdoor main control board, component failure or faulty soldering
20	P5	17	IPM overheat protection	Displayed when IPM temperature is $\geq 105^{\circ}C$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when IPM temperature is $\leq 83^{\circ}C$	ODU shut down, Indoor fan operating	1.Outdoor fan motor or its capacitor, failure leads to low fan speed 2.Poor ventilation of condenser, too dusty 3.Poor contact between IPM and radiator 4.Outdoor main control board, component failure or faulty soldering
21	P6	18	Discharge temperature overheat protection	Displayed when discharge temperature is $\geq 112^{\circ}C$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when discharge temperature is $\leq 93^{\circ}C$	ODU shut down, Indoor fan operating	1.Discharge temperature sensor, failure 2.Lack of refrigerant 3.Compressor, failure 4.Outdoor main control board, component failure or faulty soldering
22	P7	19	Cooling indoor coil anti-freezing protection	Displayed when indoor coil temperature is $\leq 0^{\circ}C$ and last for 10s	Disappear immediately when indoor coil temperature is $\geq 7^{\circ}C$	ODU shut down, Indoor fan operating	1.Indoor fan motor or its capacitor, failure leads to low fan speed 2.Poor ventilation of evaporator, too dusty 3.Indoor ambient temperature sensor, failure 4.Indoor main control board, component failure or faulty soldering
23	P8	20	Cooling outdoor coil overheat protection	Displayed when outdoor coil temperature is $\geq 68^{\circ}C$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when outdoor coil temperature is $\leq 54^{\circ}C$	ODU shut down, Indoor fan operating	1.Outdoor fan motor or its capacitor, failure leads to low fan speed 2.Poor ventilation of condenser, too dusty 3.Outdoor ambient temperature sensor, failure 4.Outdoor main control board, component failure or faulty soldering
24	PC	22	Cooling outdoor ambient temperature over-low protection	Displayed when outdoor ambient temperature is $\leq -1^{\circ}C$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when outdoor ambient temperature is $\geq 1^{\circ}C$	ODU shut down, Indoor fan operating	1.Outdoor ambient temperature, $\leq -1^{\circ}C$ 2.Outdoor ambient temperature sensor, failure 3.Outdoor main control board, component failure or faulty soldering
25	PH	23	Heating outdoor ambient temperature over-high protection	Displayed when outdoor ambient temperature is $\geq 30^{\circ}C$	If the protection occurs when compressor is on, displayed for at least 2 min; Otherwise, it disappears immediately when outdoor ambient temperature is $\geq 30^{\circ}C$	ODU shut down, Indoor fan operating	1.Outdoor ambient temperature, $\geq 30^{\circ}C$ 2.Outdoor ambient temperature sensor, failure 3.Outdoor main control board, component failure or faulty soldering