

Analysis and solution of common fault code(TL2)

Classification	Fault Code	LED Displayed	Possible Reasons	Actions
error code displayed	F0	GFCI Defective Fault	1.Leakage current sensor was broken 2.The device detected a sudden change in leakage current exceeds 300mA	1.Restart inverter to check if it can work 2.Close GFCI protection
	F1	Island Fault	AC grid interference may result in false alert	Wait for AC grid stable to observe inverter working status
	F3	PV Volt Low	PV voltage is lower than start DC voltage	1.Use matched solar panel standard and install them correctly 2.Use AVO meter to measure actual DC voltage
	F5	Bus Low Fault	Actual Bus voltage low	If the fault occurred frequently, contact your distributor for a new machine. If not, this fault won't affect power output.
	F6	Bus High Fault	Actual Bus voltage high	If the fault occurred frequently, contact your distributor for a new machine. If not, this fault won't affect power output.
	F9	No Utility	AC port cable connected incorrectly	1.Check AC plugs & cables if they are installed correctly 2.Use AVO meter to measure actual AC voltage
	F10	Ground Current Fault	1.Leakage current sensor was broken 2.The device detected a sudden change in leakage current exceeds 300mA	1.Restart inverter to check if it can work 2.Close GFCI protection
	F11	Bus Unbalance	The difference between the bus+ and bus- voltage is large	If the fault occurred frequently, contact your distributor for a new machine. If not, this fault won't affect power output.
	F12	10min Over Volt	Average AC voltage is over 253V in the last 10 mins	1.Wait for grid voltage to be stable, then restart inverter to check if it can work 2.Use AVO meter to measure actual AC volt value 3.Close 10min over voltage protection
	F15	PV Volt High	The number of solar panels is over allocated	Select matched solar panel standard and install them in a correct way
	F17	Grid Volt Fault	1.Grid voltage is abnormal 2.AC output cable is too thin and too long	1.Wait for grid voltage to be stable, then restart inverter to check if it can work 2.Use AVO meter to measure actual AC voltage value
	F18	Isolation Fault	PV grounding impedance is low	1.Check PV cable and plug connection which should not be exposed in the damp places 2.Close ISO protection
	F19	Current DC Offset (DCI-Direct current injection)	AC output contains DC current which the sudden change is 30/60/150mA (add: the larger amperage value is, the shorter time for reaction time)	1.Close DCI protection 2.Contact your distributor for a new machine
	F25	Relay check Fault	Relay damaged	1.Restart inverter to check if it can work 2.Contact your distributor for a new machine
	F27	Inv Over Current	1.The number of solar panels is over allocated 2.Software version is old	1.Select matched solar panel standard and install them in a correct way 2.Update master/slave/Lcd system version 3.Restart inverter to check if it can work
F29	Grid Freq Fault	Frequency fluctuations large	Wait for grid frequency to be stable,then to restart inverter to check if it can work	
F30	Eeprom Fault	Chip damaged	Contact your distributor for a new machine	

Classification	Fault Code	LED Displayed	Possible Reasons	Actions
green	1	DC Short circuit/one MPPT broken	IGBT was burned out	Contact your distributor for a new machine
	2	dead	1.SPS was broken 2.Control panel was broken	Contact your distributor for a new machine
	3	green of led	Led was broken	Contact your distributor for a new machine
	4	loud noise	1.Fan was broken 2.Inductance was broken	Contact your distributor for a new machine
	5	Waiting0 status	1.Inverter selection wrong 2.PV voltage is lower than required DC starting voltage	Update master/slave/lcd system version
	6	Communication error	Communication (WiFi/GPRS) disconnected	Run communication configuration again
	7	No Utility(specially for AC)	L1/L2/L3 (one or more of them) voltage value lost cause the fuse to AC grid was broken	Replace fuse(position in red color)