Fault code and solution for 5kw/9kw water heater		
Fault Code	Fault Name	Fault Debug
10	Voltage over high	A. Check power supply
11	Voltage over low	A. Check power supply
		B. Charge the battery if voltage is low
12	Software overheat	A. Check coolant level, refill coolant after temperature drop if lack of coolant and then start again
14	Water temperature or overheating temperature difference over high	
15	Overheat lock 10 times	B. Check whether water pump is working properly
17	Hardware overheat	
13	Second failure	A. Check whether the fuel pipe is blocked or the fuel in the fuel tank is enough
		B. Check whether air inlet pipe or exhaust pipe is blocked.
		C. Check whether fuel mass is appropriate
20	Glow plug broke circuit	A. Clean up the carbon deposition B Change glow plug
21	Glow plug short circuit	C. Change controller
30	The rotate speed of the fan is too high	A. Change controller
31	The fan has a broken circuit	A. Check whether fan wheel is binding B Change fan motor assembly
		C. Change controller
33	The rotate speed of the fan is too low	A. Whether power voltage is too low B Whether fan wheel is binding
		C. Change controller
39	A short circuit of warm air blower	Check motor of warm blower
41	A broken circuit of the water pump	A. Check water pump line B Change water pump
42	A short circuit of the water pump	
47	The oil pump is short circuited	A. Check fuel pump leads connection is reliable
48	The oil pump is broken circuited	B. Change fuel pump
		C. Change controller
50	Start failure lock over 10 times	Same as 13
51	Self –checking over high temperature of flame sensor	A. Wait for flame sensor cooling B Change flame sensor(normal temperature resistance>about 1KΩ)
52	Flameout 3 times	Same as 13
60	Temperature sensor is broken circuited	A. Check temperature sensor(normal temperature resistance is about 10K
		B. Change temperature sensor
61	Temperature sensor is short circuited	
64	A broken circuit of the flame sensor	A. Check flame senso B Change flame sensor
65	Flame sensor is short-circuited	
71	A broken circuit of the overheating sensor	A. Check overheat sensor
72	Overheat sensor short circuit	B. Change overheat sensor(normal temperature resistance is about 10KΩ)
		C Change controller
99	Fault information invalid	Change controller
B0	Communication fault	Check interconnecting cable
E1	Fault of controller	Replace controller
E2	Fault of controller	Replace controller