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Riello UPS Systems

NOTE, We do not supply or support UPS systems.

We were fed up with the Riello documentation at the time and so I compiled this from a few manuals, it may not be complete and comes without warranty.

Display information and fault information how to set bypass mode

User Messages

Display	Meaning
U01	Low battery warning
U02	Programmed switch-off enabled
U03	Programmed switch-off imminent
U04	Bypass disabled
U05	Synchronisation disabled (UPS in free running mode)
U06	Waiting for battery charging
U07	Service UPS
U08	Service batteries

Alerts

Display	Meaning
A06	Sensor1 temperature under 0°C
A08	Sensor2 temperature under 0°C
A39	Internal Batteries failed periodic test
A54	Load percentage greater than the user threshold set
A61	Replace battery
A62	Batteries missing or Battery Box missing / not connected
A63	Waiting for battery to charge

Faults

It is worth sorting these as they usually don't improve when left

Display	Meaning
F01	Internal communication error
F02	Phase 1 input fuse blown
F03	incorrect auxiliary power supply
F04	Heatsink over temperature
F05	Temperature sensor 1 fault
F07	Temperature sensor 2 fault
F09	Precharge of positive branch condensors failed
F10	Precharge of negative branch condensors failed
F11	input relay fault
F13	Capacitor pre-charge failed
F21	Capacitor bank overvoltage
F23	Output overload
F33	Battery measures error
F38	Battery charger fault
F40	Inverter overvoltage
F41	Continuous output voltage
F42	Incorrect inverter voltage
F43	Inverter under voltage
F50	Overload: load > 103%
F51	Overload: load > 110%
F52	Overload: load > 150%
F53	Short Circuit
F55	Waiting for load reduction to return to inverter
F60	Battery Over Voltage

Command Settings

NOTE C02 is very useful and bypass can be selected depending on the model

Older models have a rocker switch under the battery cover labelled I/II this is the bypass control switch

Newer models need a button mash to get there
 hold 'ON' and 'SEL' for 4 seconds

Display	Meaning
C01	Remote control 1 (Switch On/Off)
C02	Remote control 2 (Bypass Mode)
C03	Remote control 3 (Switch On/Off)
C04	Battery test in progress

Lockouts

At this point the UPS has stopped being a UPS but may still provide power on bypass

Control card is not inserted correctly

Display	Meaning
L02	Control card is not inserted correctly
L03	incorrect auxiliary power supply
L04	Heatsink over temperature
L05	Temperature sensor 1 fault
L07	Temperature sensor 2 fault
L10	Input fuse broken or input relay stuck (does not close)
L11	Input relay fault
L13	Capacitor pre-charge failed
L20	Capacitor bank undervoltage
L21	Capacitor bank overvoltage
L40	Inverter overvoltage
L41	Continuous output voltage
L42	Incorrect inverter voltage
L43	Inverter under voltage
L50	Overload - load > 103%
L51	Overload - load > 110%
L52	Overload - load > 150%
L53	Short circuit

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