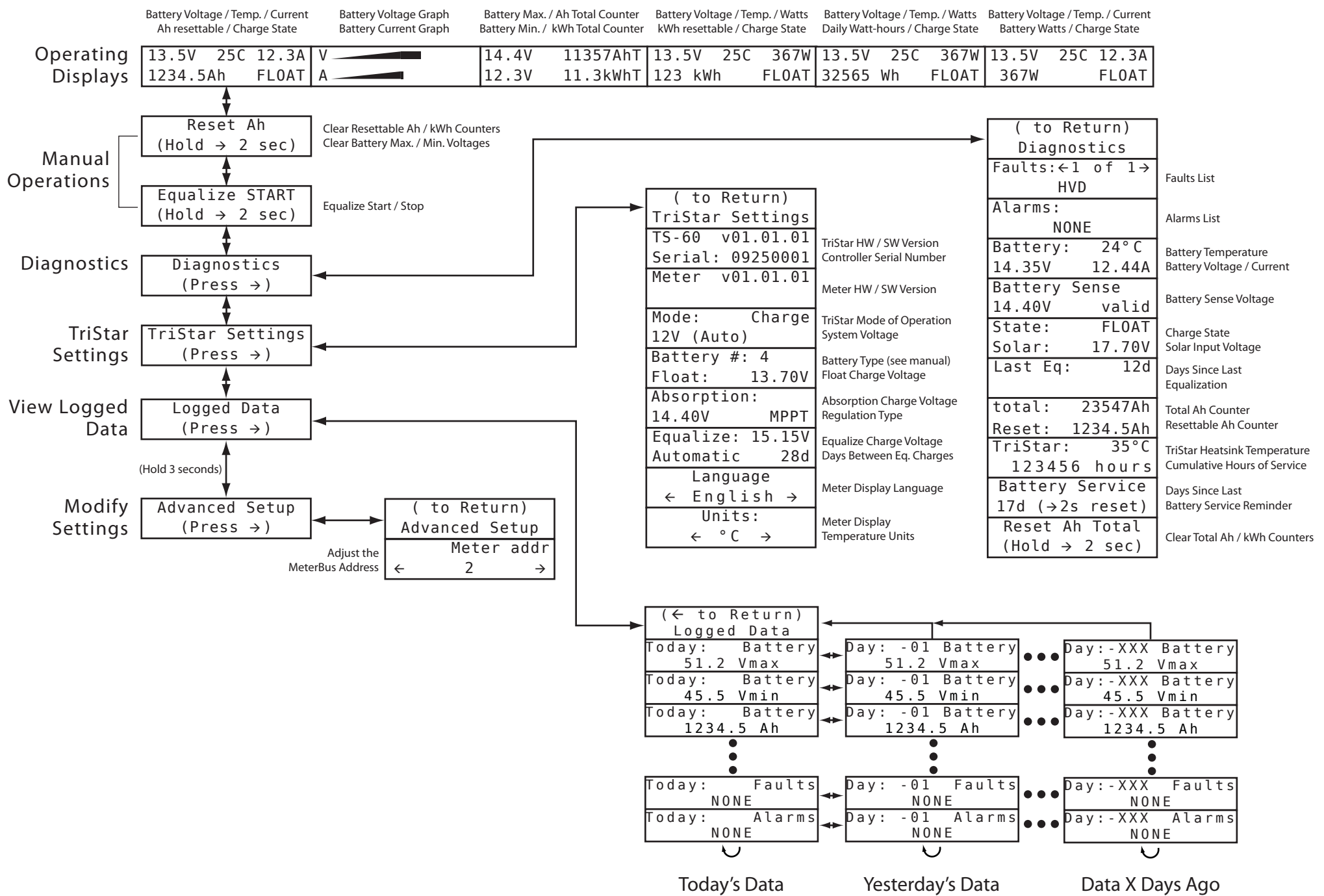


Models:
 TS-MPPT-45
 TS-MPPT-60

Solar Charging



TriStar MPPT Alarms & Faults Lists

Alarms	Description
Ths Disconnected	heatsink temp. sensor is open
Ths shorted	heatsink temp. sensor shorted
TriStar HOT	limiting current due to high temp.
Current limit	limiting an overcurrent condition
Current offset	current measurement off > 1 Amp
Battery sense	battery voltage sense error
Batt Sense disc	battery sense no longer connected
Uncalibrated	controller not factory calibrated
RTS miswire	sense wires are connected to RTS
miswire	system wiring problem detected
FET open	power switches not turning on
P12	internal power supply problem

Faults	Description
External Short	external short circuit
Overcurrent	current exceeds rating
FET Short	power switches may be damaged
Software	software problem
HVD	high voltage disconnect
TriStar HOT	heatsink temperature exceeded limits
DIP sw changed	a settings switch was adjusted while running
Setting Edit	new setting(s) written to custom settings memory
Reset?	a reset due to an interrupted fault
Miswire	system wiring fault
Slave Timeout	no slave control information received for over 1 minute (slave mode only)

MORNINGSTAR
 CORPORATION
 8 Pheasant Run
 Newtown, PA 18940 USA
 info@morningstarcorp.com
 www.morningstarcorp.com