charging

entry /
 # start our repeating events
 [self.post_fifo(Event(signal=signal,
   deferred=True,
   period=period,
   times=0)) for (signal, period) in [
    (signals.Sample_Voltage, self.volt_sec),
    (signals.Sample_Current, self.cur_in_sec),
    (signals.Pulse, self.pulse_sec)
  ]
 ]

Sample_Current /
 self.amps = sample_current()

Sample_Voltage /
 self.volts = sample_voltage()

exit /
 [self.cancel_events(
   Event(signal=signal)) for signal in
    [signals.Sample_Voltage,
     signals.Sample_Current,
     signals.Pulse]]

Create timers

React to timers

Cancel timers

constant_current_control

entry /
 self.control = self.c_control

bulk

entry /
 self.control.reference =
  self.battery_spec.bulk_ref_amps

constant_voltage_control

entry /
 self.control = self.v_control

absorption

entry /
 self.control.reference =
  self.battery_spec.abs_ref_volts

float

entry /
 self.control.reference =
  self.battery_spec.float_ref_volts

equalize

entry /
 self.control.reference =
  self.battery_spec.equal_ref_volts