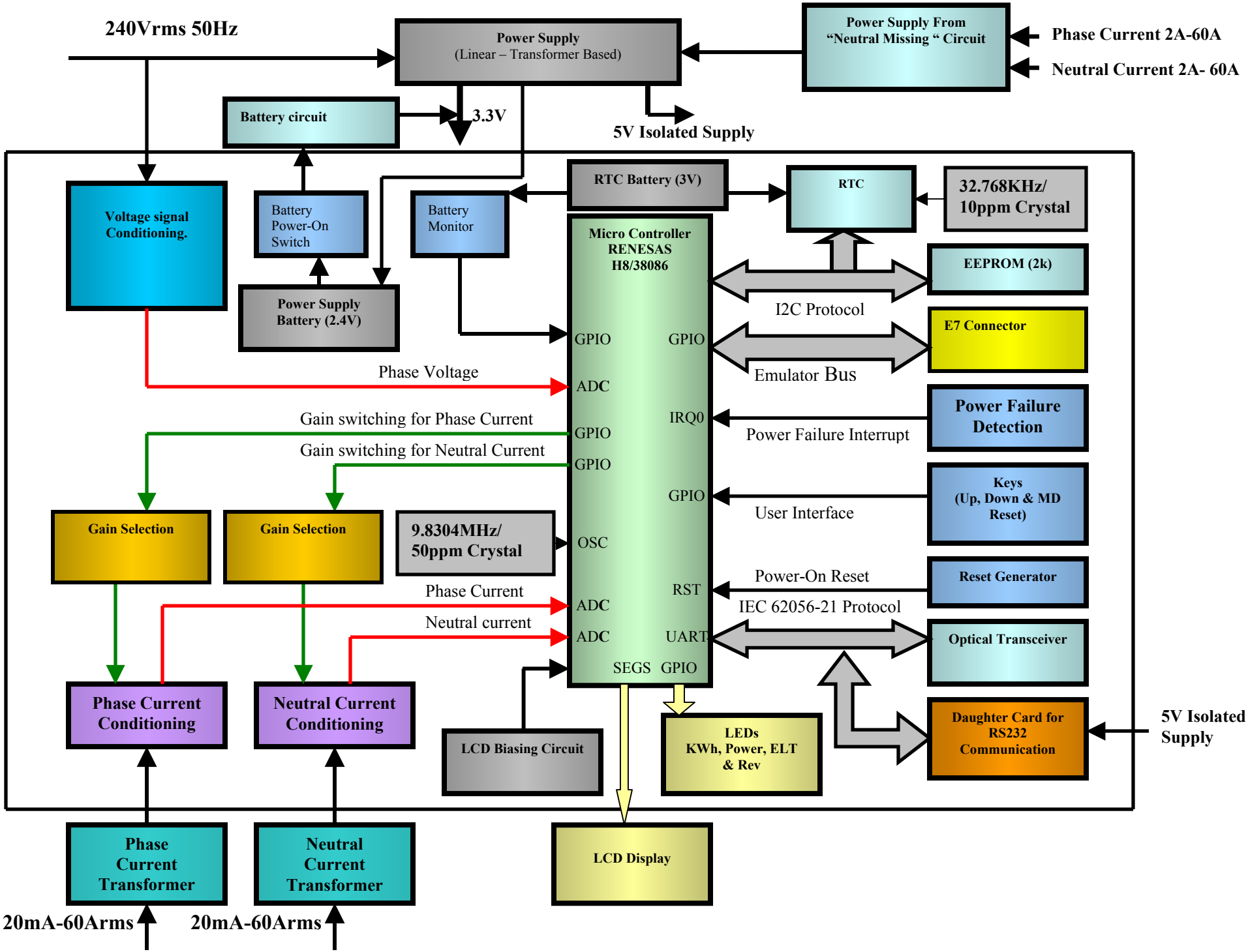
240Vrms 50Hz
Power Supply
(Linear – Transformer Based)
Power Supply From
"Neutral Missing " Circuit
Phase Current 2A-60A
Neutral Current 2A- 60A
Battery circuit
3.3V
5V Isolated Supply
Voltage signal
Conditioning.
Battery
Power-On
Switch
Power Supply
Battery (2.4V)
Battery
Monitor
RTC Battery (3V)
RTC
32.768KHz/
10ppm Crystal
Micro Controller
RENESAS
H8/38086
EEPROM (2k)
I2C Protocol
E7 Connector
GPIO
GPIO
Emulator Bus
Phase Voltage
ADC
Power Failure
Detection
IRQ0
Power Failure Interrupt
Gain switching for Phase Current
GPIO
Gain switching for Neutral Current
GPIO
Keys
(Up, Down & MD
Reset)
GPIO
User Interface
Gain Selection
Gain Selection
9.8304MHz/
50ppm Crystal
OSC
Power-On Reset
Reset Generator
RST
Phase Current
ADC
IEC 62056-21 Protocol
Neutral current
ADC
UART
Optical Transceiver
SEGS
GPIO
Phase Current
Conditioning
Neutral Current
Conditioning
LCD Biasing Circuit
LEDs
KWh, Power, ELT
& Rev
Daughter Card for
RS232
Communication
5V Isolated
Supply
Phase
Current
Transformer
Neutral
Current
Transformer
LCD Display
20mA-60Arms
20mA-60Arms