

USUAL POWER METERING INTERCONNECTION SCHEMATICS

3 PHASES STAR LOAD

3 PHASES TRIANGLE LOAD

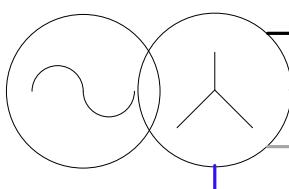
MONO PHASE

SPLIT PHASE

2 PHASES 4 WIRES (DI PHASE)

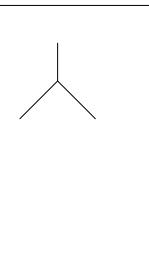
3 PHASES STAR-TRIANGLE LOAD SWITCHING

GENERATOR



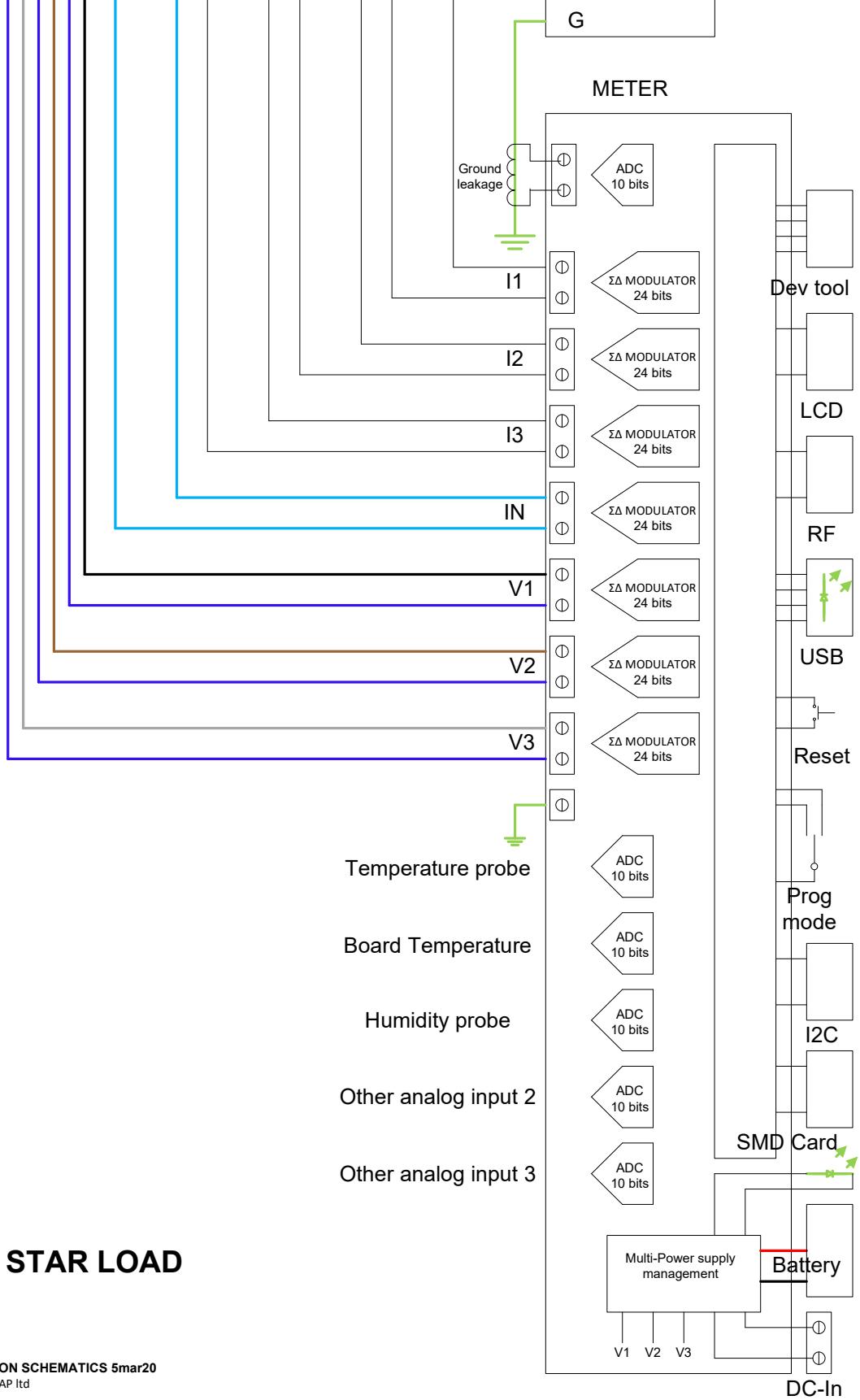
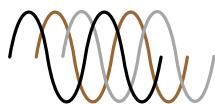
L1
L2
L3
N

LOAD



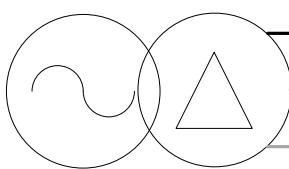
G

VOLTAGE MAX
Europe-VN 50Hz
-VL1/N=220-230-400VAC
- VL2/N=220-230-400VAC
- VL3/N=220-230-400VAC
-VL1/L2=380-400-**690VAC**
-VL2/L3=380-400-**690VAC**
USA, Canada 60Hz
-VL1/N=115-266-330VAC
- VL2/N=115-266-330VAC
- VL3/N=115-266-330VAC
-VL1/L2=200-460-**575VAC**
-VL2/L3=200-460-**575VAC**



3 PHASES STAR LOAD

GENERATOR



L1

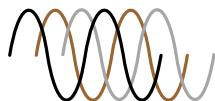
L2

L3

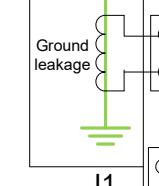
LOAD



L1/L2=120° L2/L3=120°
VOLTAGE MAX
Europe-VN 50Hz
-VL1/N=220-230-400VAC
- VL2/N=220-230-400VAC
- VL3/N=220-230-400VAC
-VL1/L2=380-400-**690VAC**
-VL2/L3=380-400-**690VAC**
USA, Canada 60Hz
-VL1/N=115-266-330VAC
- VL2/N=115-266-330VAC
- VL3/N=115-266-330VAC
-VL1/L2=200-460-**575VAC**
-VL2/L3=200-460-**575VAC**



METER



I1

I2

I3

IN

V1-V2

V2-V3

V1-V3

Temperature probe

Board Temperature

Humidity probe

Other analog input 2

Other analog input 3

ADC 10 bits

$\Sigma\Delta$ MODULATOR 24 bits

ADC 10 bits

Dev tool

LCD

RF

USB

Reset

Prog mode

I2C

SMD Card

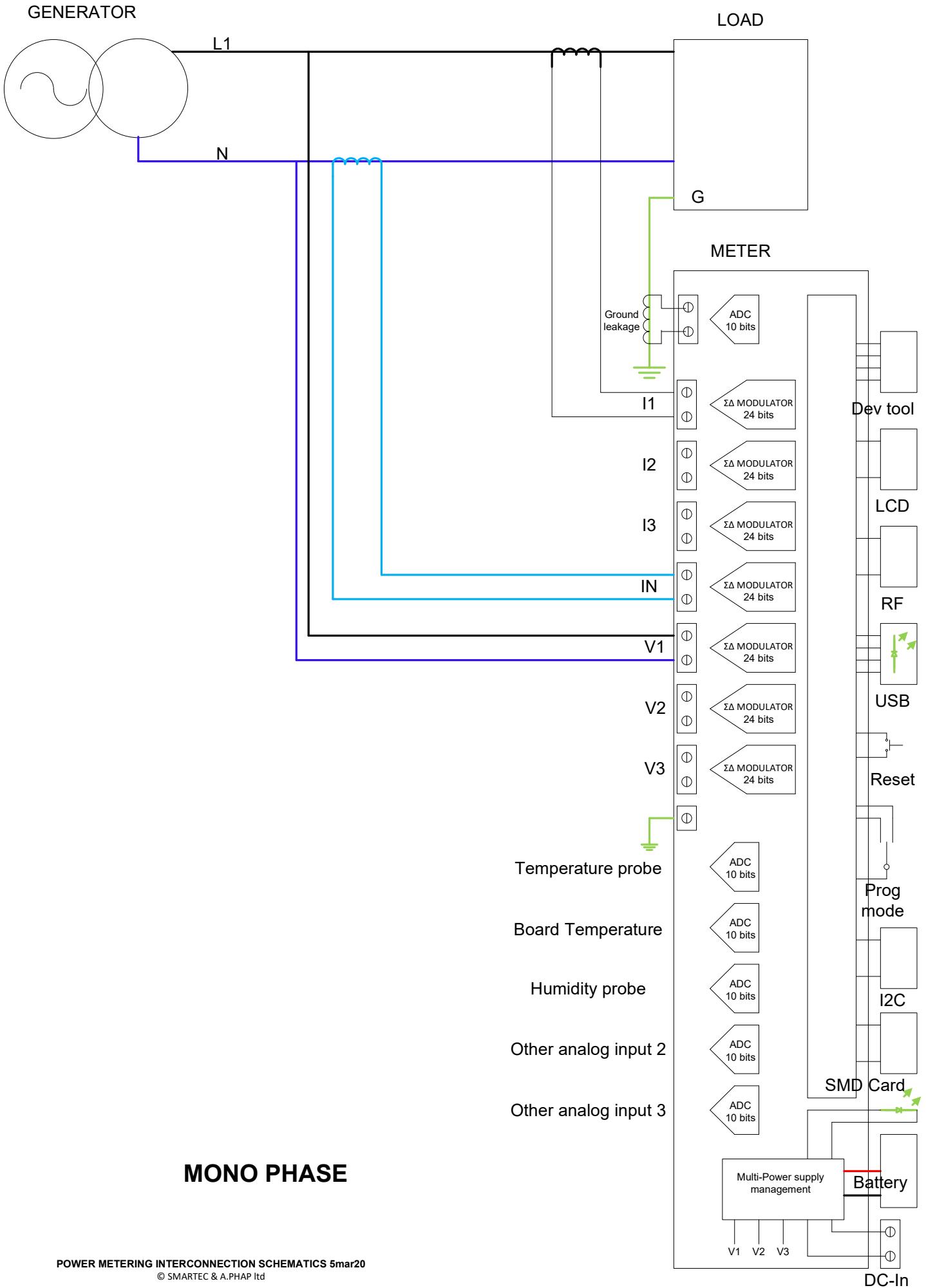
Battery

Multi-Power supply management

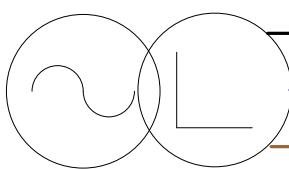
V1 V2 V3

DC-In

3 PHASES TRIANGLE LOAD



GENERATOR



L1

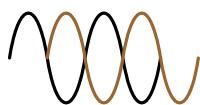
N

L2

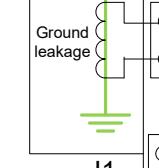
LOAD

G

L1/L2=180°
USA 60Hz
-VL1/N=115VAC
-VL2/N=115VAC
-VL1/L2=230VAC
OTHER 50Hz
-VL1/N=220VAC
-VL2/N=220VAC
-VL1/L2=440VAC



METER



I1

I2

I3

IN

V1

V2

V3

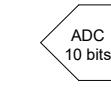
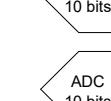
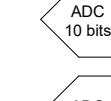
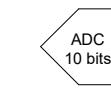
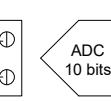
Temperature probe

Board Temperature

Humidity probe

Other analog input 2

Other analog input 3



Dev tool

LCD

RF

USB

Reset

Prog mode

I2C

SMD Card

Battery

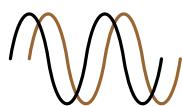
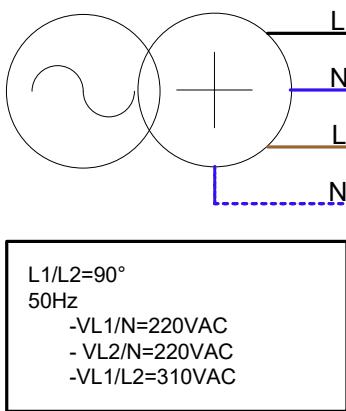
Multi-Power supply management

V1 V2 V3

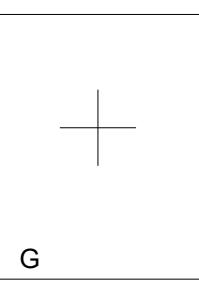
DC-In

SPLIT PHASE

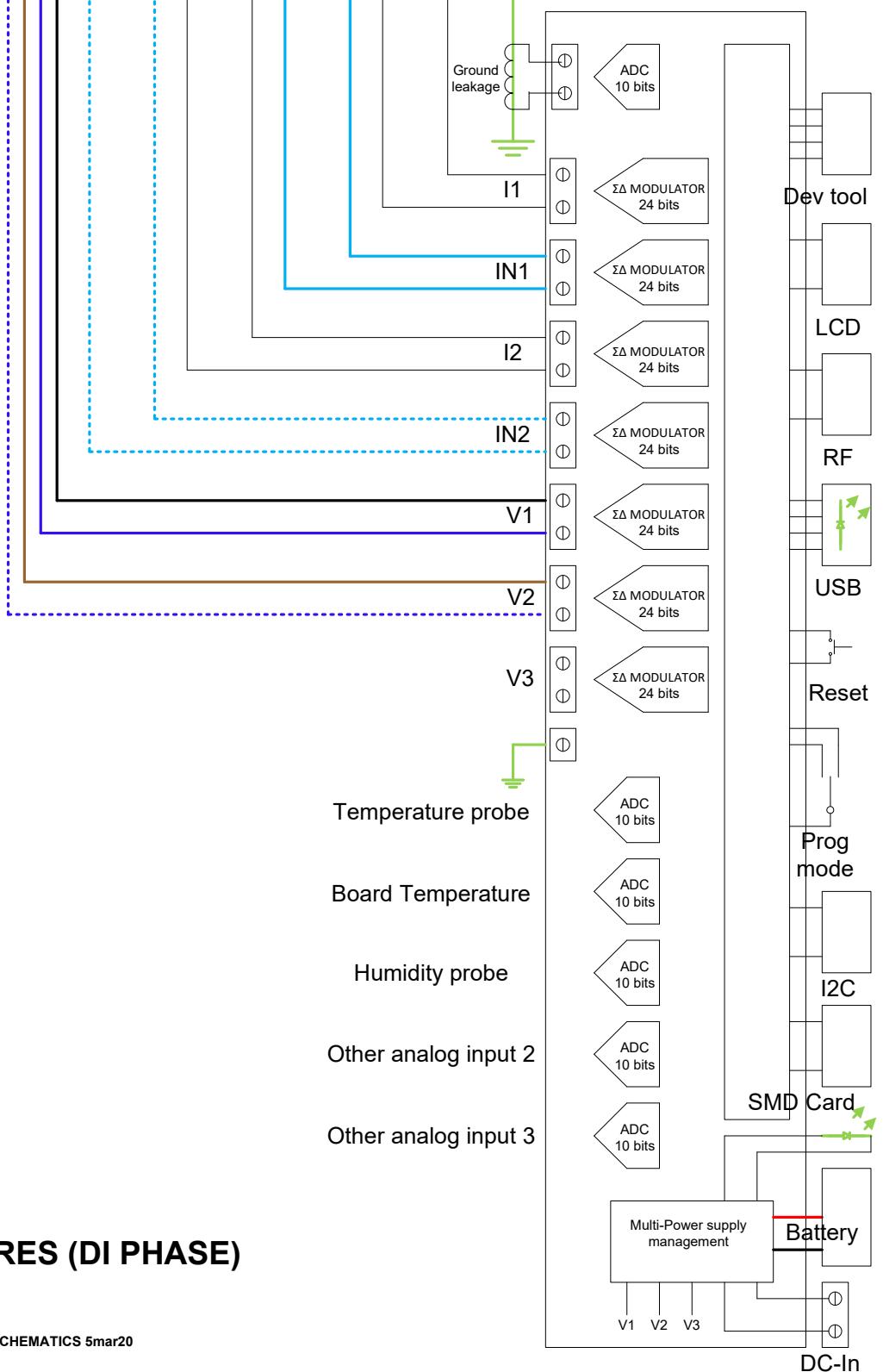
GENERATOR



LOAD



METER



2 PHASES 4 WIRES (DI PHASE)

