TEST LAB LAYOUT

230VAC GRID

MULTIPLUS AC Input

420W

8W

MULTIPLUS AC Output

N2K 4 x T-Piece Backbone

SIGNALK Server
12V | 0.025A | 0.3W

NMEA2000 Drop Cable to CAN Hat

NMEA0183 to RS485 Serial Cable

CAT.6 LAN CABLE

VENUS-OS server
12V | 0.025A | 0.3W

VE.DIRECT CABLE To USB

12V | 0.04A | 5W

12V | 0.025A | 0.3W

zencloud.espib.co

4G MICRO SIM

2 x 12V   25Ah

12V | 1.5A | 18W

96W

PoE MANAGED SWITCH

5W

UNMANAGED SWITCH

CLOUD SERVER

20V | 5A | 100W

ZEN-TestLab Components

1. TP-LINK P100 WiFi smart plug
2. VICTRON Multiplus 12 | 800 | 35 inverter/charger
3. DIGITUS Rack 10" DN-10-SET-1
4. TP-LINK ARCHER MR600 4G + Cat6 AC1200
5. VICTRON AGM Super Cycle 12V | 25Ah C20 BAT412025081 (2)
6. VICTRON SmartShunt 500A | 50mV SHU050150050
7. RPI Compute module 4 WiFi 8GB RAM 32GB CM4108032
8. LINE Fuse 100A
9. DIGITUS PoE Managed Switch 8 Port L2 DN-95231
10. DIGITUS Unmanaged Switch 8 Port DN-80114
11. RPI Model 4B 2GB RAM 32GB
12. VICTRON MK3 Cable to USB
13. VICTRON VE.Direct Cable to USB
14. YACHT DEVICES NMEA 2000 Thermometer YDTC-13
15. AIRMAR DST800 NMEA0183 Triducer
16. I2C ADAFRUIT IMU BNO055 ADA2472
17. I2C WAVESHARE SENSE HAT B
18. WAVESHARE GPS SIM868

PROJECT	ZEN50	SCALE	NA	SIZE	A3	AUTHOR	FAD PIBICO	REVISION	A	DATE	7-jan-2023