

Driftwind ELECTRICAL

Solar Health Check Report

Company Name: Date: Ref No:
Site Name: Permit to work requirement: Yes No
Contractor: Approved By:
Job/Task: Asset:

SOLAR HEALTH CHECK REPORT

Reason for Visit

Post Audit Inverter Check System Check

SYSTEM DETAILS

Install Date

Original Install date

Installer

Original Installer

Inverter size

kW

Orientation/Bearing

Tilt

deg

Etotal

kWh

Etoday

kWh

Time of reading

Time

Weather Condition

Fine

Overcast

INVERTERS

Actual power production

W

Open circuit Voltage

V DC

229

MPP Voltage

V DC

MPP Current

A DC

1.59

DC plug

Pass Fail

AC Plug

Pass Fail

Labels

Faded

Pass Fail

Location (UV/airflow)

Pass Fail

CONDUIT

Saddles

Pass Fail

Conduit Run

Pass Fail

Glued/water ingress

Pass Fail

Labels

Faded

Pass Fail

Correct UV Rating

Pass Fail

HD in ceiling (if required)

Pass Fail

MB/SB

Metering,Wiring, ISO Link

Pass Fail

PV MS Suitable

Pass Fail

Labels

Faded

Pass Fail

Main Earth

Pass Fail

Fireproof/seal MB

Pass Fail

ISOLATOR

Cable/Conduit entry

Pass Fail

Mounting

Pass Fail

Location

Pass Fail

Water Ingress

Pass Fail

Degradation from exposure

Pass Fail

PANELS

Orientation/Layout

Pass Fail

Tiles Ground

Not applicable

Pass Fail

Rubber feet for tin roof - N/A

Not applicable

Pass Fail

Roof Condition

Pass Fail

— —

Equipment Bonding
 Mid-End Clamps
 Array Cabling
 Panel Condition
 Shading

Pass Fail
 Pass Fail
 Pass Fail
 Pass Fail

Shading %

COSTS OF SMALL REPAIRS (This is only if technician can do this when onsite. Return visit, will be additional charges)

No repairs required

Replacement of AC isolator single phase

Single Phase - \$60 3 Phase - \$90

Replacement of DC solator

\$100

Cable clips to panels (per clip \$2)

Per Clip \$2 on hourly rate of \$75

MC4s replacement

\$45

Label Kit

\$30

Reseal/Waterproof conduit

\$25

Reseal waterproof dektite

\$25

COMMENTS/ACTIONS TAKEN

Overall System is performing at or above expectation

Repairs required - see notes below

After wash, panels were performing at expectation. Details of Galvo: Inverter Before wash: At this stage there was no shade over the panels so full sun. After the panel wash, there was an error 502, that appeared on the inverter screen. This was due to an insulation cable fault, after water ingressed the cable sheathing. Fault finding revealed a cable chewed by the possum who lives under the panels. Repaired by cutting out damaged cable and fitting 2 sets of MC4 connectors to the cable and securing the re-connection. By now the panels were in the shade but washed. Readings increased as per below 509W increase of 132W 331V DC increase of 102VDC 1.88A increase of 0.29A Repairs required: No AC iso installed, Supply and install DC Isolator x 2 (on roof), DC cable in 20mm conduit mostly not glued creating water Ingress, Replace 20mm Conduit with 25mm conduit and seal as per standard. (Conduit 4 lengths @ \$5.95 per length) Labour included below. DC ISO on roof need to be replaced x 2, All cables hanging on the roof need to be re-clipped/cable tied, No dektites (not compulsory) Aurora Inverter: Insufficient voltage to start inverter Repairs required: DC Iso needs to be replaced water ingress Supply and install DC Isolator x 1 - (beside inverter - Photo 1 & 2), All joints are not glued need to be glued, No dektites, All cables hanging on roof need to be clipped/cable tied (cable ties and clips) All other points are good on the list See pictures. Labour to rectify rooftop issues (not dektites)

FOLLOW UP ACTION REQUIRED/RECOMMENDED

Nil - System is currently good working order

A 12 monthly health check is recommended to ensure system is safe and fully functional

Follow-up action/recommendations

Repairs as per above outlined is recommended

Checklist Item	Date Actioned	Actioned By
----------------	---------------	-------------

Kylie Pratt 23/5/2019 @ 10:42AM
Employee

