After Installation *Instructions*

Your Partners in everything Solar.

EFS SOLAR

After Installation *Instructions*

Here are a few easy steps to follow with your new solar system. The inverter is pretty basic, once its going it's set and forget.

The main thing you want to keep an eye on is that there's always a green light on during the day. If it's ever red and flashing it means it's got a fault.
We recommended restarting the inverter, to do this you just follow the shutdown procedure sticker that's on the inverter.

The sticker reads
SHUTDOWN PROCEDURE

1. Turn off the "Main Switch (Inverter Supply)" or A.C Isolator

2. Turn off the "PV Array D.C Isolator" located at the inverter.

WARNING: Do not open plug and socket connectors or PV Array D.C isolator under load.
WARNING: PV array D.C Isolators do not de-energise the PV array and array cabling

Start-up procedure is the reverse of the Shutdown Procedure

If the fault is still there when it fully restarts give the office a call (1300 911 736) and we will send someone out to fix it for you.

The main information on the inverter to keep an eye on is the e-today, that's what the inverter has produced for the day. If you have a look at it before the sun goes down it will tell you what it's done for the whole day. On average for your system you want to be seeing approx 26kw for the day this is based off your system being 6.5kw. Obviously on an overcast day it will be a little less.

The (PAC) on the inverter screen is what the inverter is currently producing at that moment.

If you have purchased a SOLAR ANALYTICS this will be installed in the switchboard. This device reads the consumption of the house and what the solar is producing. Once this device is set up by the installers you will receive an email from Solar Analytics themselves (Be aware sometimes it can land in you junk/spam email)

Follow this email to set up a log in.

Once login is set up can download either the app or go to www.solaranalytics.com.au

Goodwe Monitoring App

The monitoring app for Goodwe Inverters is called "**SEMS PORTAL**". On the day of your install, the technicians will connect your inverter and set up an account for you. To log into the app please use the following details:

Username: This will be the email you supplied during the initial sale.
Password: The default password is "Goodwe2018"

Sungrow Monitoring App

The monitoring app for Sungrow Inverters is called "**iSolarCloud**". On the day of your install the technicians will connect your inverter and set up an account for you. Once setup, you will receive an email from Sungrow containing your login details.

NSW CCEW

Once installed you will receive your CCEW via email from us 14 business days.

You use this CCEW number to contact your provider and request a date of which they can change over your meter.***(Please be aware that sometimes it can take the provider 48 hours to register the CCEW in there system, We do recommend ringing them 2 days after receiving the CCEW from us.)***

Please do not change electricity providers prior to getting your meter changed over as this will restart the process. It is also your responsibility to turn the system on once your meter change over has been completed.

Depending on the provider they can potentially request more information from you which we will be able to help you with if you ring our office.

We really hope you enjoyed the whole process of your installation. Any Questions or Enquiries please don't hesitate to call 1300 911 736.

Disclaimer:

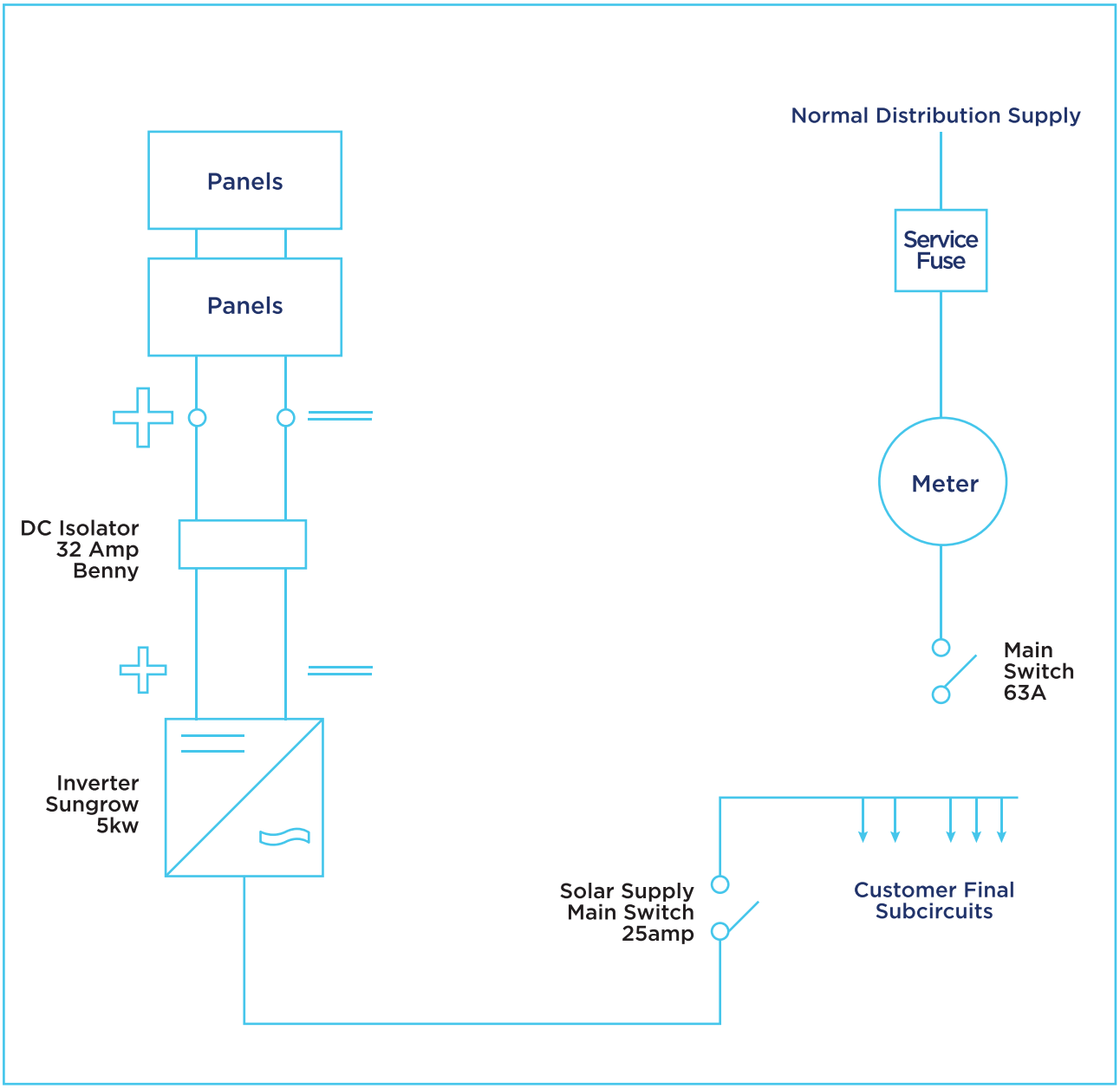
EFS Solar has no control over how long the change over process takes as It is all dependant on the power providers availability. While we endeavour to ensure that your system is turned on at the time the meter is changed over, ***IT IS UP TO YOU TO DOUBLE CHECK THAT IT IS ON AND WORKING***. For information on how to check if your system is operating correctly, please refer to page 1 of this document.

Maintenance *Schedule*

Component	Maintenance	Frequency	Remarks
Site	Verify the following: (a) Cleanliness (accumulation of debris around or under the array). (b) No shading of the array.	Quarterly	Clean site as required
PV modules	Verify cleanliness (accumulation of dust or fungus on array).	Quarterly	Clean if necessary
	Check for visual defects including— (a) fractures; (b) browning; (c) moisture penetration; and (d) frame corrosion.	1 year	PV modules with visual defects should be further inspected for performance and safety to determine the need for replacement
	Inspect junction boxes for— (a) tightness of connections; (b) water accumulation/build-up; (c) integrity of lid seals; (d) integrity of cable entrance, glands and conduit sealing; and (e) integrity of clamping devices. Verify bypass diodes.	1 year	Replace defective seals, clamps and bypass diodes

Wiring Installation	Verify mechanical integrity of conduits	5 year	Replaced Damaged Conduit
	Verify insulation integrity of cables installed without conduit.	5 year	Replaced damaged cable
	Check junction boxes for - (a) tightness of connections; (b) water accumulation/build-up; (c) integrity of lid seals; (d) integrity of cable entrance and/or conduit sealing; and (e) integrity of clamping devices. Verify the following: (i) Blocking diodes. (ii) Surge arresters for degradation.	1 year	Replace defective seals, clamps blocking diodes and surge arresters
	Check connections for— (a) tightness; and (b) corrosion.	1 year	
Electrical characteristics	Measure open circuit voltages	1 year	
	Measure short circuit currents	1 year	
Protective devices	Verify integrity of fuses and fuse holders	1 year	
	Verify operation of CBS and RCDs	1 year	
	Verify operation of fault protection system	1 year	
	Verify operation of solar array isolation device	1 year	
Mounting structures	Verify tightness and integrity of bolts and other fastening devices	1 year	
	Inspect for corrosion	5 year	

Connection *Diagram*



System *Production*

EFS Solar can only guarantee the production of your system based on the daylight hours below, this does not take into consideration loss from shading.

CITY	1 kW	2 kW	3 kW	4 kW	5 kW	6kW
Sydney	3.9	7.8	11.7	15.6	19.5	23.4
Brisbane	4.2	8.4	12.6	16.8	21.0	25.2
Cairns	4.2	8.4	12.6	16.8	21.0	25.2
Darwin	4.4	8.8	13.2	17.6	22.0	26.4

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