

Growatt

Shinertools initial password: ossyyyymmdd (current date) Shinephone/growatt key: growattyyyymmdd (current date) Initial passwords 12345678 / 1234

Dashboard: <https://server.growatt.com/login>

Warranty details: <https://www.ginverter.com/support/warranty>

<https://pypi.org/project/growattServer/>

<https://github.com/johanmeijer/grott> <https://forums.whirlpool.net.au/archive/9xv65qw6>

https://www.reddit.com/r/SolarDIY/comments/xkizq5/growatt_inverter_and_battery_charging_time_config/ <https://electricianforum.co.uk/threads/growatt-ct-discrepancy.56213/page-2>

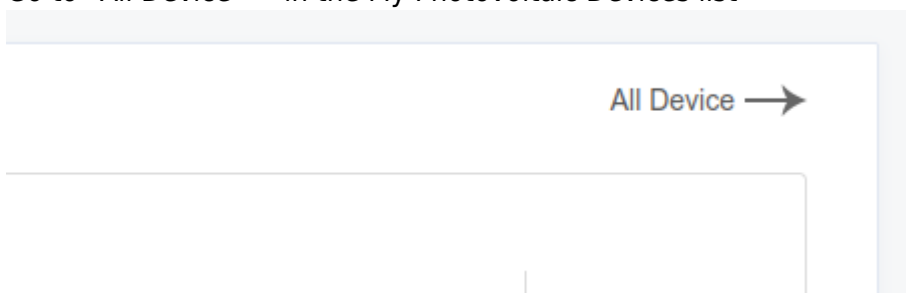
Note: the inverter is doing a self test routine when the panels start supplying and when they cease eg sunrise and sunset. It goes into mode of drawing from the grid instead of the battery whilst this is going on, typically between 5 and 7 minutes.

Change Datalogger interval

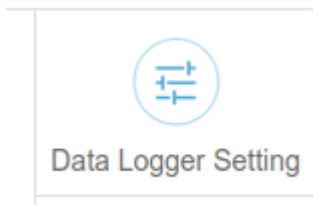
By default, the datalogger upload interval is every 5 minutes. This can be changed either by re-initialising the data-logger through it's Wifi Access point function, but it's a lot easier doing this through the server.growatt.com interface.

Steps:

1. Log into <https://server.growatt.com>
2. Go to "All Device →" in the My Photovoltaic Devices list



3. Open the Data Logger Settings



4. Click on "Advanced Set"

Clear

Yes Advanced Set

5. Enter "4" as Register in the "Read" row, then enter "growatt"+current date in format YYYY-MM-DD as key like "growatt20230709" without the quotes and press "Read". This will return the current setting which is likely 5. This screenshot shows 1:

Register Read

Current Value: 1

State Network Parameter Setting

Username	Login	State Grid	Test Id Start
Password	Collector Sn	Plant Id	Value
<input type="text" value="pvcloud"/>	<input type="text" value="pvcloud"/>	<input type="text" value="1000000000"/>	<input type="text" value="001"/>

Setting Read

Please Enter Key To Save Yes Advanced Set Cancel

6. To change the update interval value, enter 4 in the Register row above the read entry and set 1 as value, then click on 'Yes' at the bottom to save:

Register Value

7. Read the value again to confirm, then click cancel to close this window
 8. Go back to the dashboard and click the (i) next to the Data Logger serial number to confirm the new interval again:

Update Time: 2023-07-09 18:17:36 Rated Power(kW): 3.6

Data Logger: ⓘ Current Power(kW): 2.1

Total Energy(kWh): 504.5

Signal	Good(-62)
Collector model	ShineWIFI-S
Meter SN	3.0.0.2
Ip & Port	/80.195.52.86:45448
Data Update Interval	1Minute

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ibution

The graphs on server.growatt.com won't change, but the data logger history can be verified and obtained through a greasemonkey/violentmonkey/tampermonkey script as Growatt removed the button to view the data history from the server, but the underlying functionality is still there.

Greasemonkey browser script:

```
// ==UserScript==
```

```
// @name      Growatt Device History
// @namespace http://tampermonkey.net/
// @version   0.2
// @description Adds a button on the main screen under devices to access
the detailed historical data
// @author    You
// @require   https://gist.github.com/raw/2625891/waitForKeyElements.js
// @match     http*://*.growatt.com/index
// @icon      https://server-us.growatt.com/v3/images/favicon/favicon.ico
// @grant     none
// ==/UserScript==

(function() {
    'use strict';

    /* globals waitForKeyElements */

    var historyButton=document.createElement("input");
    historyButton.type="button";
    historyButton.value="Get Historical Data";
    historyButton.setAttribute("style", "font-size:18px;position:relative;text-align:center");
    historyButton.onclick = showHistory;

    function insertButton(jNode){
        jNode.html(historyButton)
    }

    waitForKeyElements ("#tb_device_con > div > table > tbody > tr:nth-child(1) > td:nth-child(2)", insertButton);

    function showHistory(){
        var inv = window.INVS[Object.keys(window.INVS)[0]];
        if(inv.deviceTypeName=="inv"){
            window.comm.dialogUrl({
                skin:"noPadding",
                id:"dialog_inverterHistory",
                title:"History Data("+inv.sn+)",
                url:"/device/getInverterHisPage",
                btns:[window.comm.getI18n("no-more"),function(did,dialog){window.dialog_inverterHistory_search_More(did,dialog)};false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
                success:function(did,dialog){
                    window.dialog_inverterHistory_init(did,dialog,inv.sn);
                }
            });
        }else if(inv.deviceTypeName=="max"){
            window.comm.dialogUrl({
                skin:"noPadding",
                id:"dialog_maxHistory",
```

```
        title:"History Data("+inv.sn+")",
        url:"/device/getMAXHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_maxHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
window.dialog_maxHistory_init(did,dialog,inv.sn,inv.deviceType);
    }
    });
    }else if(inv.deviceTypeName=="storage"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_storageHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getStorageHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_storageHistory_search_More(did,dia
log);},false,"btn_more
dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
window.dialog_storageHistory_init(did,dialog,inv.sn,inv.deviceType);
    }
    });
    }else if(inv.deviceTypeName=="mix"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_mixHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getMIXHisPage?mixSn="+inv.sn,
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_mixHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_mixHistory_init(did,dialog,inv.sn);
        }
    });
    }else if(inv.deviceTypeName=="pcs"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_pcsHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getPCSHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_pcsHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_pcsHistory_init(did,dialog,inv.sn);
        }
    });
    }else if(inv.deviceTypeName=="hps"){
    window.comm.dialogUrl({
```

```
        skin:"noPadding",
        id:"dialog_hpsHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getHPSHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_hpsHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_hpsHistory_init(did,dialog,inv.sn);
        }
    });
}else if(inv.deviceTypeName=="spa"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_spaHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getSPAHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_spaHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_spaHistory_init(did,dialog,inv);
        }
    });
}else if(inv.deviceTypeName=="tlx"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_tlxHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getTLXHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_tlxHistory_search_More(did,dialog)
;},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_tlxHistory_init(did,dialog,inv);
        }
    });
}else if(inv.deviceTypeName=="jlInv"){
    window.comm.dialogUrl({
        skin:"noPadding",
        id:"dialog_jlInvHistory",
        title:"History Data("+inv.sn+")",
        url:"/device/getJlInvHisPage",
        btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_jlInvHistory_search_More(did,dialo
g);},false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
        success:function(did,dialog){
            window.dialog_jlInvHistory_init(did,dialog,inv);
        }
    });
}else if(inv.deviceTypeName=="jfyInv"){
```

```
        window.comm.dialogUrl({
            skin:"noPadding",
            id:"dialog_jfyInvHistory",
            title:"History Data("+inv.sn+")",
            url:"/device/getJfyInvHisPage",
            btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_jfyInvHistory_search_More(did,dial
og);}],false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
            success:function(did,dialog){
                window.dialog_jfyInvHistory_init(did,dialog,inv);
            }
        });
    }else if(inv.deviceTypeName=="pbd"){
        window.comm.dialogUrl({
            skin:"noPadding",
            id:"dialog_pbdHistory",
            title:"History Data("+inv.sn+")",
            url:"/device/getPBDHisPage",
            btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_pbdHistory_search_More(did,dialog)
;}],false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
            success:function(did,dialog){
                window.dialog_pbdHistory_init(did,dialog,inv);
            }
        });
    }else if(inv.deviceTypeName=="eybondInv"){
        window.comm.dialogUrl({
            skin:"noPadding",
            id:"dialog_eybondInvHistory",
            title:"History Data("+inv.sn+")",
            url:"/device/getEybondInvHisPage",
            btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_eybondInvHistory_search_More(did,d
ialog);}],false,"btn_more
dis"],['i18n_common_cancel',window.comm.dialogClose]],
            success:function(did,dialog){
                window.dialog_eybondInvHistory_init(did,dialog,inv.sn);
            }
        });
    }else if(inv.deviceTypeName=="igenInv"){
        window.comm.dialogUrl({
            skin:"noPadding",
            id:"dialog_igenInvHistory",
            title:"History Data("+inv.sn+")",
            url:"/device/getIgenInvHisPage",
            btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_igenInvHistory_search_More(did,dia
log);}],false,"btn_more
dis"],['i18n_common_cancel',window.comm.dialogClose]],
            success:function(did,dialog){
                window.dialog_igenInvHistory_init(did,dialog,inv.sn);
            }
        });
    }
```

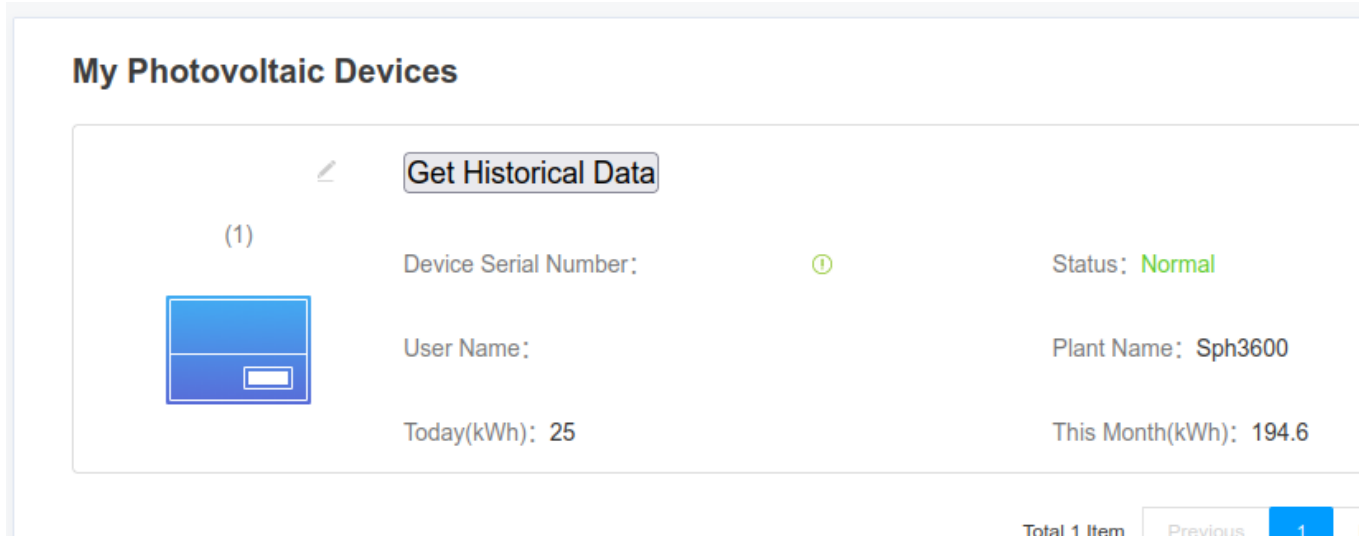
```

    }
  });
  }else if(inv.deviceTypeName=="pumper"){
    window.comm.dialogUrl({
      skin:"noPadding",
      id:"dialog_pumperHistory",
      title:"History Data("+inv.sn+)",
      url:"/device/getPumperHisPage",
      btns:[[window.comm.getI18n("no-
more"),function(did,dialog){window.dialog_pumperHistory_search_More(did,dial
og)};],false,"btn_more dis"],['i18n_common_cancel',window.comm.dialogClose]],
      success:function(did,dialog){
        window.dialog_pumperHistory_init(did,dialog,inv.sn);
      }
    });
  }
};
})();

```

<https://diysolarforum.com/threads/data-history-removed-from-server-us-growatt-com.34331/>

The above script will add a "Get Historical Data" button to the server.growatt.com page:



Example History showing the change from 5 minute update interval to 1 minute update interval:

History Data()												
		Time	Day	2023-07-09 - 2023-07-09		Search		Export				
No.	Time	Status	Ppv(W)	Vpv1(V)	Ppv1(W)	Vpv2(V)	Ppv2(W)	VBat(V)	SOC(%)	Pdischarge1(W)	Pcharge1(W)	Pac(W)
61	2023-07-09 17:03:23	PV Bat Online	1100.0	180.1	498.2	179.3	605.3	53.2	99.0	0.0	0.0	1023.3
62	2023-07-09 17:02:23	PV Bat Online	1160.0	177.9	522.9	179.6	644.7	53.2	99.0	0.0	0.0	1094.3
63	2023-07-09 17:01:23	PV Bat Online	1270.0	180.1	564.6	179.3	711.5	53.2	99.0	0.0	0.0	1174.1
64	2023-07-09 17:00:23	PV Bat Online	1370.0	184.1	586.2	181.3	792.4	53.2	99.0	0.0	0.0	1283.5
65	2023-07-09 16:59:22	PV Bat Online	1713.7	182.1	618.7	179.4	1095.0	53.2	99.0	0.0	0.0	1579.4
66	2023-07-09 16:56:31	PV Bat Online	2130.0	185.1	658.9	181.2	1480.8	53.2	99.0	0.0	0.0	1946.8
67	2023-07-09 16:51:31	PV Bat Online	1330.0	175.1	504.2	178.3	826.0	53.2	99.0	0.0	0.0	1231.8
68	2023-07-09 16:46:31	PV Bat Online	3340.0	183.1	777.4	181.4	2564.5	53.2	99.0	0.0	0.0	3000.6
69	2023-07-09 16:41:31	PV Bat Online	1730.0	183.1	554.8	172.4	1175.5	53.1	99.0	0.0	0.0	1600.2

Download Growatt Data Log History

The following bash script downloads the historic data log into xls files for each day. The file needs start and end date as well as username, password and the serial number of the inverter as configuration options.

[growatt_history_download.sh](#)

```
#!/bin/bash

startdate="20230614"
enddate="20230709"
interval=1
username="username"
password="password"
serialnumber="serialnumber"

curl 'http://server-api.growatt.com/login' --compressed -X POST -H
'User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101
Firefox/115.0' -H 'Accept: application/json, text/javascript, */*;
q=0.01' -H 'Accept-Language: en-GB,en;q=0.5' -H 'Accept-Encoding: gzip,
deflate' -H 'Content-Type: application/x-www-form-urlencoded;
charset=UTF-8' -H 'X-Requested-With: XMLHttpRequest' -H 'Origin:
http://server-api.growatt.com' -H 'Connection: keep-alive' -H 'Referer:
http://server-api.growatt.com/login' --cookie-jar cookies.txt --data-
raw
"account=${username}&password=${password}&validateCode=&isReadPact=0" -
-silent

while [[ "${startdate}" -le "${enddate}" ]]; do
  # echo ${startdate}
  formatdate="$(date -d "${startdate}" +%Y-%m-%d)"
  echo "Processing ${formatdate}"
  echo
```



```
"mixSn=${serialnumber}&startDate=${formatdate}&endDate=${formatdate}&start=1"
  curl 'http://server-api.growatt.com/device/exportMIXHistory' --
compressed -X POST -H 'User-Agent: Mozilla/5.0 (X11; Linux x86_64;
rv:109.0) Gecko/20100101 Firefox/115.0' -H 'Accept: application/json,
text/javascript, */*; q=0.01' -H 'Accept-Language: en-GB,en;q=0.5' -H
'Accept-Encoding: gzip, deflate' -H 'Content-Type: application/x-www-
form-urlencoded; charset=UTF-8' -H 'X-Requested-With: XMLHttpRequest' -
H 'Origin: http://server-api.growatt.com' -H 'Connection: keep-alive' -
H 'Referer: http://server-api.growatt.com/index' --cookie cookies.txt -
-data-raw
"mixSn=${serialnumber}&startDate=${formatdate}&endDate=${formatdate}&st
art=1" -o "growatt-export_${formatdate}.xls" --silent
exit
  # set new start date based on interval
  startdate="$(date -d "${startdate} + ${interval} days" +%Y%m%d)"
done
```

From:
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:
<http://wuff.dyndns.org/doku.php?id=howto:growatt&rev=1688939877>

Last update: **2023/07/09 22:57**

