Growatt

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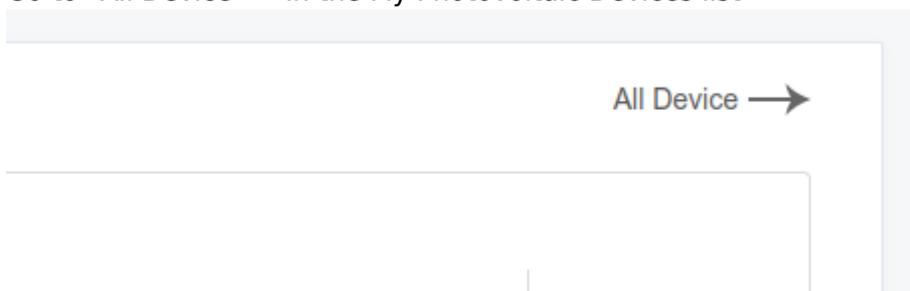
Note: the inverter is doing a self test routine when the panels start supplying and when they cease eg sunrise and sunset. It goes into mode of drawing from the grid instead of the battery whilst this is going on, typically between 5 and 7 minutes.
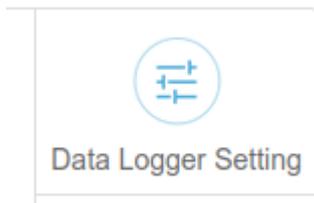
Change Datalogger interval

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.
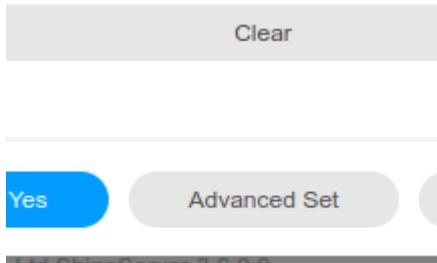
Steps:

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   4   Read

Current Value: 1

○ State Network Parameter Setting

Username	Login Password	State Grid Collector Sn	Plant Id	Test Id Start Value		
pvcloud	pvcloud	1000000000		001	Setting	Read

Please Enter Key To Save   growatt20230709   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   4   Value   1

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.

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

To First   1   Page   Yes

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,di
alog);},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);
                        }
                });
        }
    };


})();
```
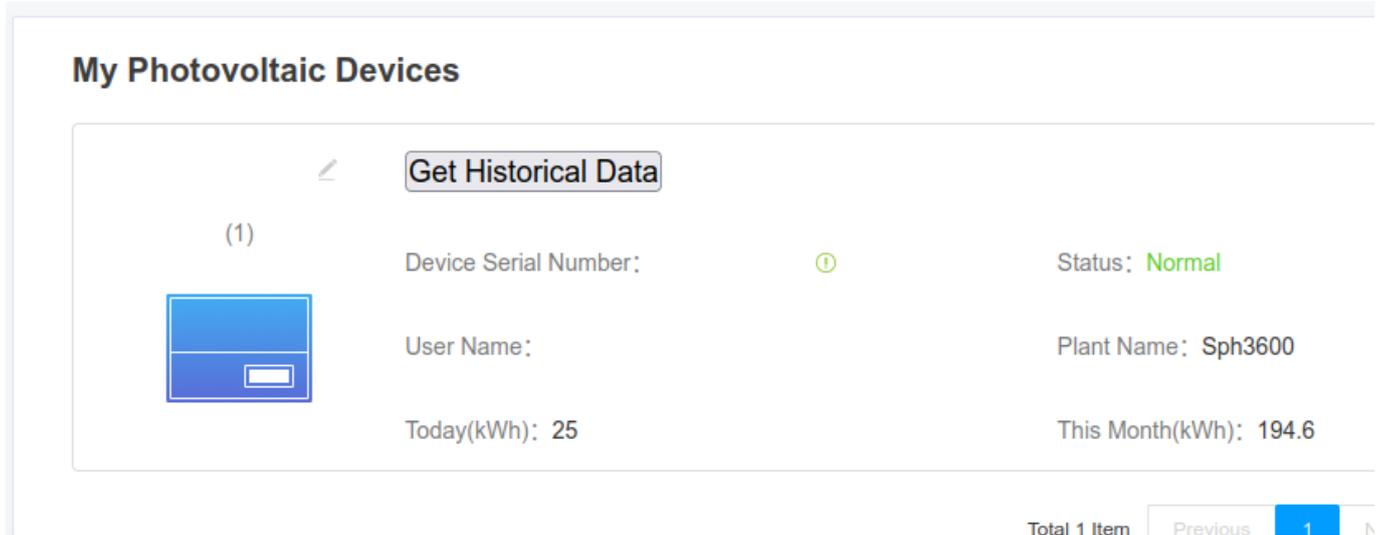
https://diysolarforum.com/threads/data-history-removed-from-server-us-growatt-com.34331/

The above script will add an export history button to the server.growatt.com page:

My Photovoltaic Devices

(1)   ✎   Get Historical Data

Device Serial Number:　　　　　　ⓘ　　　　　　Status: Normal

User Name:　　　　　　　　　　Plant Name: Sph3600

Today(kWh): 25　　　　　　　　This Month(kWh): 194.6

Total 1 Item | Previous | **1** | N

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

From:

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

Permanent link:

http://wuff.dyndns.org/doku.php?id=howto:growatt&rev=1688923727

Last update: **2023/07/09 18:28**

No.	Time	Status	Ppv(W)	Vpv1(V)	Ppv1(W)	Vpv2(V)	Ppv2(W)	VBat(V)	SOC(%)	Pdischarge1(W)	Pcharge1(W)	Pac(W)