

## Inverter Series:

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Hybrid Monophase

Inverter Installation and  
commissioning manual (software)

Manual de instalare si punere in  
functie a invertorului (software)



# Please read the manual before installing and operating the inverter.

*This user manual introduces the inverter in terms of its installation, and software configuration. Please read through the manual carefully before installing and using the inverter, and keep the manual well for future reference*

### About This Manual

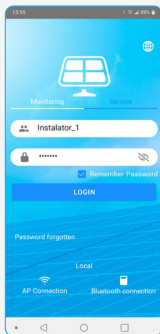
This user manual is intended for photovoltaic (PV) inverter operating personnel and qualified electrical technicians.

## A. Local Initialization

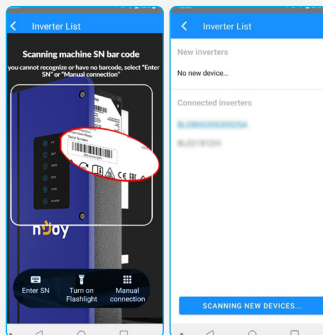
### IF NECESSARY:

- *The installation firm needs to contact nJoy for creating a personalized account that allows for better management of the installation sites. This account will be assigned to the firm, not on the individual person.*
- *Download the SolarTouch app on a smartphone. (The QR code can be found on the product label).*

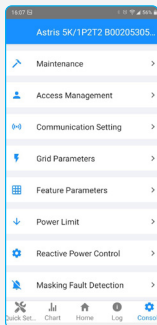
1



Launch the SolarTouch app and connect the device to Bluetooth (when launching the app will ask permission to access Bluetooth and GPS, please allow).



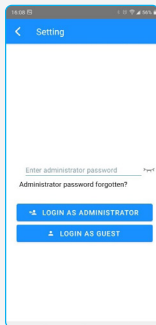
To successfully connect the inverter serial number needs to be added, by scanning or by manual adding and selecting the inverter's name from the available Bluetooth connections. (The Product serial number can be found on the side label attached to the inverter).



You will land on the Homepage where the inverter's functioning is already displayed.

Access Settings by clicking on Console.

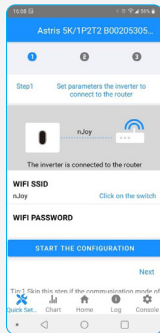
## 2



Choose the Access Management option. Access Change User and login as administrator by entering the 'admin' password.

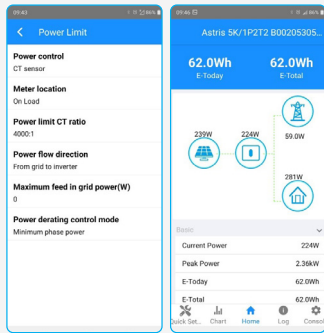
**NOTE!** From this point on, the administrator account remains active. To deactivate the account it is necessary to switch to the login as a guest option. This switch will change the inverter parameters to be only viewed and not modified.

3



To configure the Wi-Fi module press Quick Setup from the down-left ribbon on the screen. Follow the instructions that are presented in the previous 3 steps configuration. To do this, enter the wireless access details of the owner (SSID and password). Watch as the color of the LED changes from blue to green as the module connects to the Wi-Fi.

4



Access Console > Power Limit and set up the parameters according to the owners' system. (For example, if a CT or Smart Meter is added, make sure to set up those parameters).

**NOTE!** For an accurate electrical consumption reading please install the CT/Smart Meter on load (please consult the hardware installation manual).

To do other configurations, please do them here in the Console menu. After finishing, relaunch the app and verify if all settings are correct.

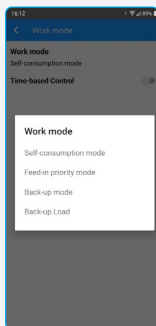
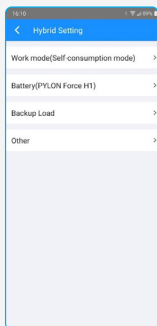
5

## B. Specific settings for hybrid inverters

### 1

Hybrid inverters, having several energy sources (grid, photovoltaic panels, battery) and several consumption channels (domestic appliances, battery charging, grid feeding), they have a greater variety of settings that the installer has to be aware of, for the optimal use of the solar system.

Considering this, in case of hybrid inverters, the bluetooth configuration application under the **Console** menu has the **Hybrid Settings** submenu:



In this menu, the first setting is **Work Mode**. This item establishes the priority of the power sources and the consumers, as follows:

**Self consumption mode:** This mode aims to be as independent from the grid as possible. PV panels will be used for regular consumers; remaining power (if any) will be used to charge the batteries, and if it's still power left, it will be injected into grid. If PV power is not enough for the consumers, the difference will be taken from the battery and lastly from the grid.

PV -> Load – Battery – Grid

Load <- PV – Battery – Grid

**Feed-in priority mode:** This mode prioritises feeding the grid (solar farms, etc.). PV panels will be used first for regular consumers; remaining power (if any) will be fed in the grid. If still there is power left, it will be used to charge the batteries. If the PV power is not enough to sustain the consumers and feed the grid, battery will be used to supply power.

**PV -> Load - Grid - Battery**

**Load <- PV - Battery - Grid**

**Back-up Mode:** This mode prioritises charging the battery, beneficial for areas with poor grid supply (Ex. frequent blackouts). PV panels will charge the batteries (if needed); the remaining power will support the regular load, and the remaining power will be fed into grid. If PV are not operating (Ex. at night time), the battery will be charged from the grid. The energy stored in batteries will be used only when grid is off and PV panel don't deliver enough energy to support the regular load.

**PV -> Battery - Load - Grid**

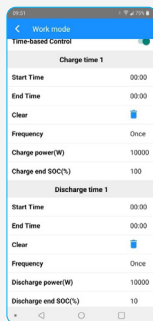
**Load <- PV - Grid - Battery**

**Back-up Load:** This mode prioritises the regular load, being appropriate for areas with poor grid supply. PV panels will power the regular load first; any remaining energy will be used to charge the batteries, if necessary; remaining power will be injected into grid. If PV supply isn't enough to support the regular consumers, the energy needed will be taken from grid or, if grid is unavailable, from the battery.

**PV -> Load - Battery - Grid**

**Load <- PV - Grid - Battery**

**Time-based Control** allows a detailed management of the battery, by specifying the maximum charge and discharge power on various time frames. For example, during night time when PV panels don't deliver power, the charging power can be reduced to avoid grid consumption, etc.







**Battery:** it contains the settings to manage the charging and discharging the battery. The behaviour of some settings depends on the Work Mode chosen, also on the battery type used (Pb-acid, Li-Ion etc.)

**Battery Brand Selection:** selects the type and brand of the battery used (Pb-acid, Li-Ion or a specific brand). The following settings are related to the Li-Ion batteries mostly, as they are more complex.

**Comm.address:** Communication address with the battery BMS. Should be 1 unless otherwise specified.

**Maximum charge / discharge power (W):** Maximum absolute charging power, respectively discharging power of the battery

**Charge to(%) / Discharge to(%):** Battery capacity (%) at which the charging, respectively discharging will be halted.

**Discharge End SoC(on-grid)(%):** Minimum capacity (%) of the battery at which the discharge will be halted, if the grid charging is allowed.

**Start force charging when reaching(%):** Starts force charging of the battery if the charge level is under the value specified.

**Stop force charging when reaching(%):** Stops force charging of the battery if the charge level is over the value specified.

**Maximum Grid Forced Charge Power (W):** Maximum power taken from the grid to force charge the battery. It is relevant only if Charge by Grid setting is ON **Charge by Grid:** Allows or forbids grid charging. WARNING! If it is OFF, it will deny even the battery's BMS charging request!

**Maximum grid charge power (W):** Maximum grid power used to charge the battery

**Maximum input power from Grid(W):** Maximum power taken from grid.

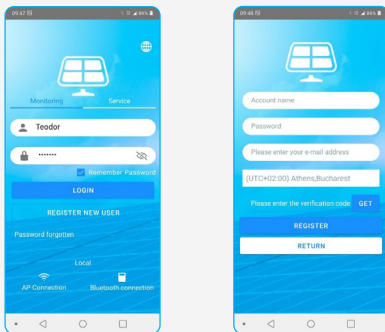
**Charge by grid to(%):** Battery will be charged from grid until it reaches the specified charge level (SoC).

## C. Owner's account for continuous monitoring

Our recommendation is that at every inverter commissioning attach an owner's account for monitoring the installation site and equipment and for a clear overview of all equipment commissioning. If needed, the installer firm, through the installer's account, can make a virtual, remote troubleshooting and error correction.

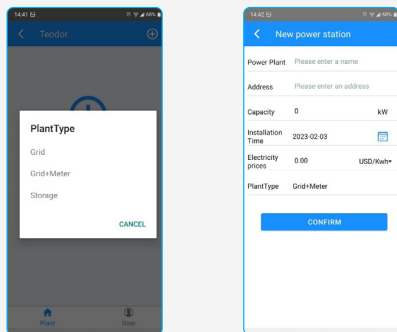
**NOTE!** During this operation a Internet connection is necessary.

1



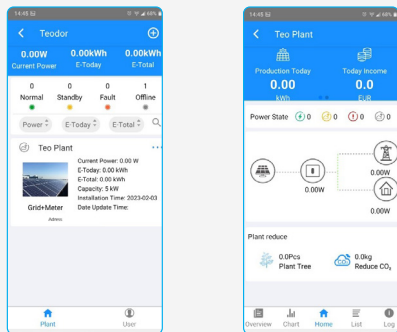
Open the app, and select REGISTER NEW USER to create a new account. With the owner, choose an account name, a password, an email address and the timezone (+2 GMT for Romania). Press GET to receive a confirmation code (on the owner's email address). Insert the verification code and press REGISTER. From this moment on the account is active.

2



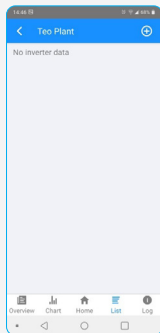
Now choose the inverter type: On Grid, On Grid with CT or Smart Meter or Hybrid. After making the selection, please fill in the following fields: Name, address, installed power (kW), installation date, the price of electrical energy (kWh). If the data is correct press CONFIRM.

## 3



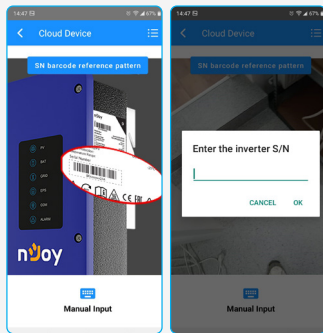
After CONFIRM, you'll see the owner's sites (represented in the images is only 1 site). Please select the desired site to access the monitoring screen (Homepage). Here can be observed the energy yield from the solar system to loads and/or electrical grid. For the moment all values are 0 because there is no installed equipment. To see a list of all inverters that have been installed, press List.

4



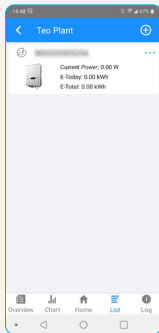
For now, the inverter list is empty. To add a new inverter to the list press + on the upper-right side of the screen.

5



To add the inverter, the app will require the inverter S/N (Serial Number). This number can be achieved by simply scanning the side label or by manually entering (by pressing Manual Input on the bottom page) the numbers/letters.

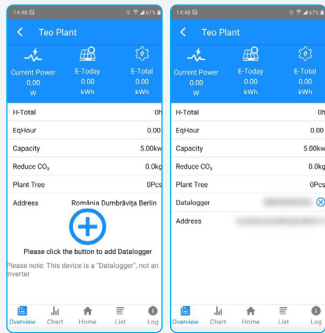
6



If this S/N is correct the app will automatically detect the inverter and will be added to the list.

**NOTE!** If the inverter is already to another location or client, the serial number will be null. For this situation please contact nJoy Technical Support.

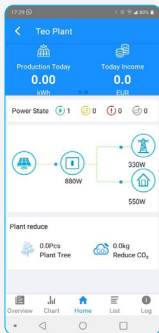
7



If the inverter has an attached Smart meter of CT, then the inverter serial number will be needed in the Overview screen.

Press Overview and then press the blue button +. Add the inverter serial number. From this moment on, the inverter is fully configured and the commission will be finalized. The app will receive all the relevant data about the solar system, as power yield, production and distribution modes.

## 8

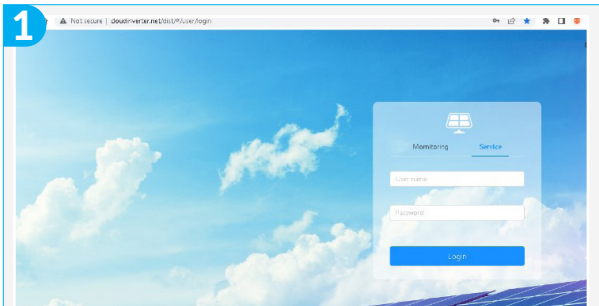


By pressing the Home button you can see how the electricity is distributed.

**NOTE!** Please be aware that the refresh rate is at 5-10 minute, the data displayed is not real-time. Please allow some time for the app to refresh the data and upgrade to the latest version.

If an 1 appears on the green icon this means that the inverter is online and producing energy.

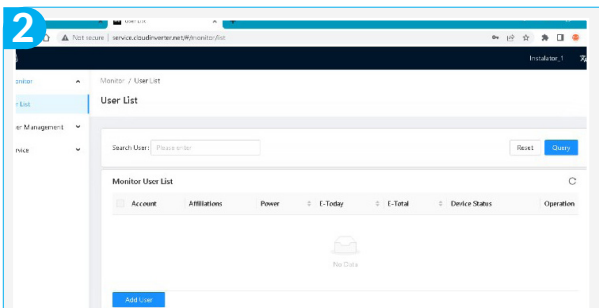
## D. Adding the user account to the service application



Open the browser and search [www.cloudinverter.net](http://www.cloudinverter.net)

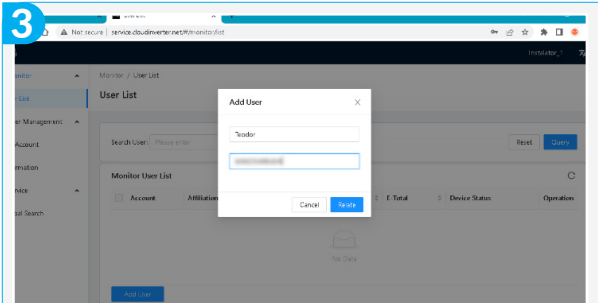
The Starting page of the service application will be displayed.

Select the Service version and fill the installer name and the password provided by nJoy.

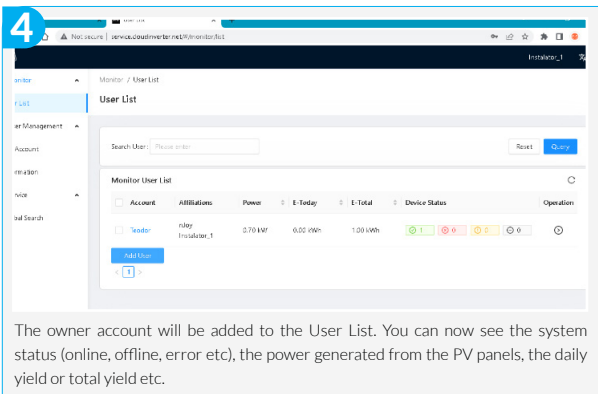


Once the installer account is accessed, the option of remote monitoring and troubleshooting becomes active. In order to do that, the owner's account needs to be added to the User List. Add a user by clicking the button.





In the pop-up window you will have to fill in the owner name and inverter serial number. After making sure that the data is correct click Relate.



The owner account will be added to the User List. You can now see the system status (online, offline, error etc), the power generated from the PV panels, the daily yield or total yield etc.

**5**

Power: 664.00  
E Today: 0.00 kWh  
Total Plant: 1 kW

Status	PlantName	E-Today	E-Total	Start Time	Update	PlantType	Power	Efficiency	Operation
OK	Teo Plant	0.00 kWh	1.00 kWh	2023-02-03	2023-02-06 12:07:22	Grid+Meter	664.00kW	0	Edit Delete

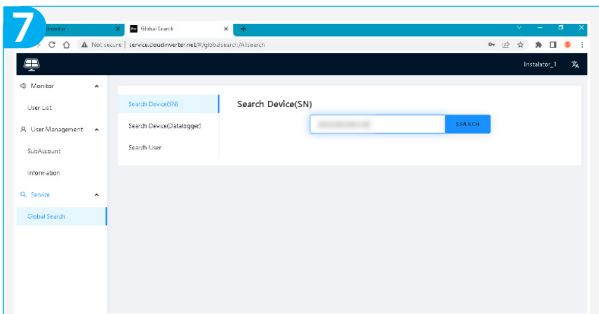
By clicking on the blue account name, a new tab will open with the user account monetization data. Here can be seen details about the installed system, the location etc.

**6**

Group: Teo Plant | 2022-11-06 - 2023-02-06

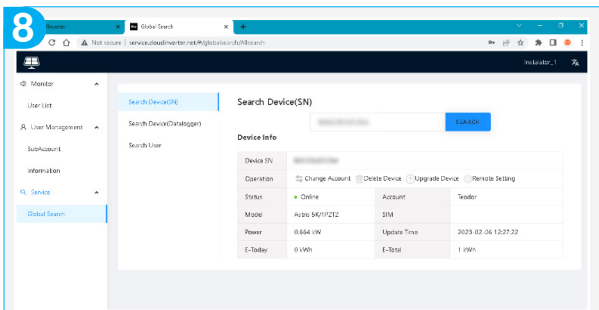
Name	Account	Type	S/N	Time	Event	Status
Atris SK/1P2T2	Teodor	Atris SK/1P2T2		2023-02-03 17:31:39	CN-Remote off	Action
Atris SK/1P2T2	Teodor	Atris SK/1P2T2		2023-02-03 13:32:42	CI-Meter List	Action
Atris SK/1P2T2	Teodor	Atris SK/1P2T2		2023-02-03 13:32:18	A2-Grid absent	Action
Atris SK/1P2T2	Teodor	Atris SK/1P2T2		2023-02-03 12:31:25	A2-Grid absent	Action

By clicking on LOG > HISTORY LOG from the owner's account, all events will be displayed such as inverter function, notifications, errors etc.



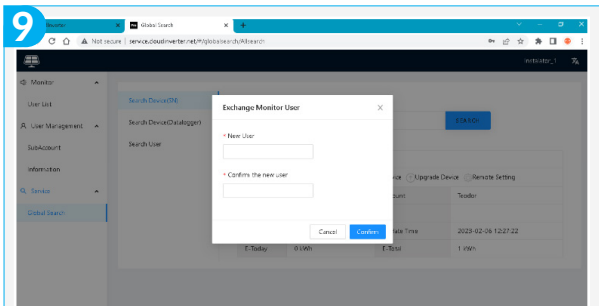
From the Service > Global search menu you can search inverters. by S/N.

**NOTE!** In order to find a specific equipment, it needs to be linked to an owner account and this account to be added to the installer service application.

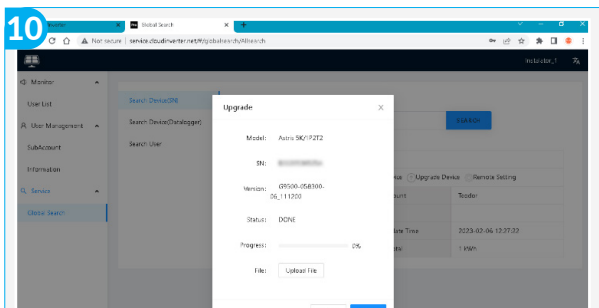


If the equipment is found, all data available will be displayed (model name, rated power, current status, owner's account linked etc).

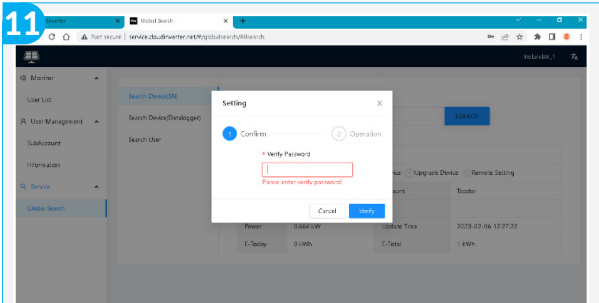
Several actions are available, accessible from the Operation line.



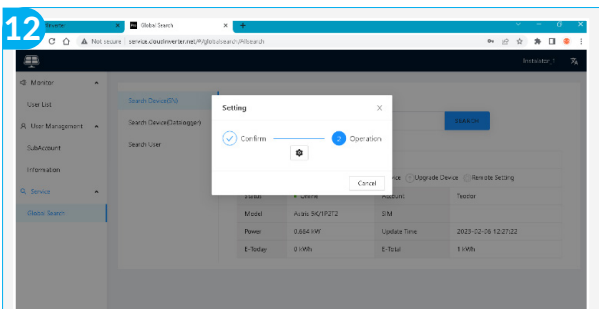
By clicking CHANGE ACCOUNT this equipment can be transferred to another owner by updating the account with the relevant information and added to the Service area of the app. The DELETE DEVICE button allows for the equipment to be erased from the owner's account.



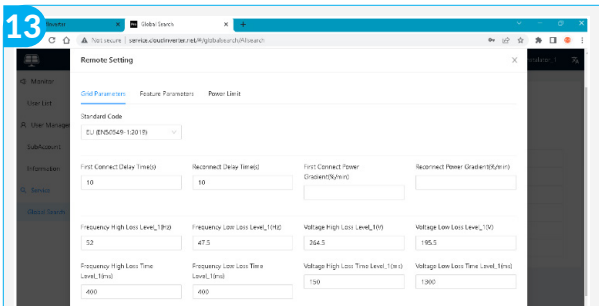
By clicking UPGRADE DEVICE the firmware can be remotely updated.



The REMOTE SETTING button allows for modification of the parameters and settings of the inverter. To have access to these parameters modifications you'll need the admin password and click Verify.



If the password is correct, a Settings symbol will appear (a gear wheel). By clicking this symbol you will have access to settings and parameters.



The settings are arranged in categories: Grid Parameters, Feature Parameters and Power Limit. The values displayed are the current measured values and these can be changed. By clicking on UPLOAD (down page button) the new settings are sent to the inverter.

**NOTE!** The blank parameters cannot be set or modified.

# Va rugam sa parcurgeti manualul inainte de a instala si opera inverterul.

*Acest manual prezinta inverterul din punct de vedere al montarii, instalarii al instalarii si configurarii software. Va rugam sa parcurgeti manualul inainte de a instala si opera inverterul si pastrati-l pentru viitoare referinte.*

### Pentru personal autorizat

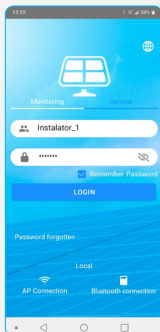
Acest manual de utilizare este dedicat personalului autorizat in instalatii inverteoare hibride si pentru electricienii calificati.

## A. Configurarea locala initiala

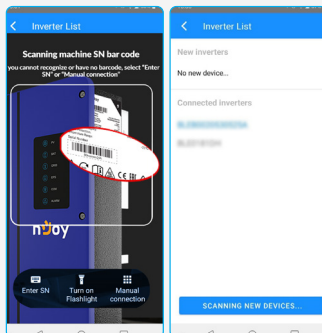
### DACA ESTE CAZUL:

- *pentru a putea avea o evidenta si de a accesa de la distanta echipamentele instalate, firma instalatoare contacteaza nJoy pentru crearea unui cont personalizat de instalator. Acest cont va fi al firmei si nu individual pe persoana.*
- *descarca aplicatia SolarTouch pe telefon si o instaleaza. (QR Code-ul se gasesti pe eticheta produsului)*

# 1

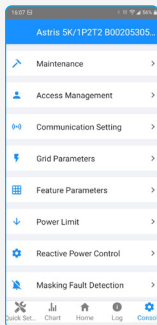


Se pornește aplicația SolarTouch și se conectează Local pe Bluetooth cu butonul Bluetooth connection (își va cere să pornească Bluetooth-ul și localizarea GPS).



Pentru reușita conectării trebuie introdusă seria inverterului, fie prin scanare, fie selectând Manual Connection și alegând echipamentul disponibil pe rețeaua Bluetooth. (Seria produsului se găsește pe eticheta produsului la secțiunea Serial Number).

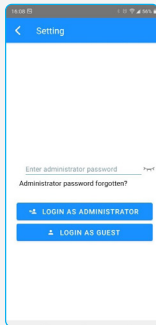




Se ajunge in ecranul principal (Home) unde deja se vede functionarea echipamentului.

Se intra in consola de setari a invertorului accesand butonul Console.

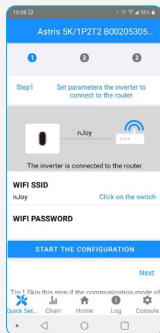
## 2



Se alege optiunea Access Management. Se acceseaza Change User si se intra in contul de administrare introducand parola 'admin' si apasand butonul LOGIN AS ADMINISTRATOR. In acest moment toate setarile din meniul Console sunt accesibile. Se iese inapoi in ecranul Console.

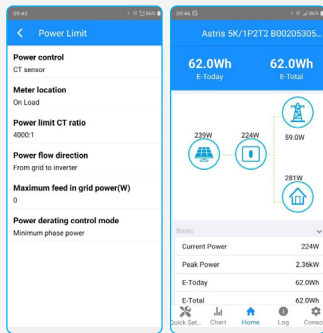
**OBS!** De aici inainte contul de administrare va ramane activat. Pentru a-l dezactiva e necesar sa se acceseze optiunea LOGIN AS GUEST, lucru care va face ca parametrii inventurului sa poata fi doar vizualizati, nu si schimbati.

3



Se face configurarea modului Wi-Fi prin accesarea butonului Quick Setup din partea de jos-stanga. Se urmeaza toate instructiunile aferente celor 3 pasi de configurare prealabila. Pentru aceasta trebuie introduse datele retelei wireless a proprietarului (SSID si parola de acces). Se urmareste ca LED-ul modului WiFi sa-si schimbe culoarea din albastru in verde, semn ca modulul s-a conectat la reseaua WiFi.

4



Se intra in meniul Console / Power Limit si se configureaza setarile in functie de echipamentul proprietarului (Ex. daca se foloseste CT sau SmartMeter, se introduc parametrii respectivi).

**ATENȚIE!** Pentru o citire mai exacta a consumului se recomanda ca dispozitivul de masurat (CT sau SmartMeter) sa fie montat dupa inverter (On Load).

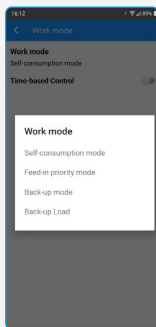
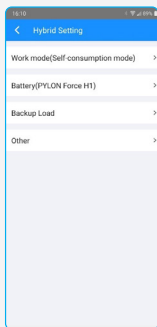
Daca e cazul, se fac si celelalte setari din meniul Console, apoi se reporneste aplicatia si se verifica ca noile setari sa fie pastrate.

## B. Setari specifice invertoarelor hibride

### 1

Invertoarele hibride, avand mai multe surse potentiale de energie (retea, panouri solare, baterie) precum si mai multe canale de consum (consumatorii casnici, incarcarea bateriei, livrarea de curent in retea), au o mai mare varietate de setari care trebuiesc cunoscute pentru functionarea optima a solutiei solare.

Astfel, pentru invertoarele hibride, aplicatia de configurare pe bluetooth prezinta in meniul **Console** un submeniu specific, si anume **Hybrid Settings**.



Primul meniu din **Hybrid Setting** este **Work Mode**. Acesta stabileste prioritizarea surselor de energie si a consumatorilor, dupa cum urmeaza:

**Self consumption mode**: : mod in care se urmareste independenta fata de retea electrica. Energia din panouri va fi folosita cu prioritate pentru consumatorii casnici; surplusul va fi folosit pentru incarcarea bateriilor, iar restul pentru injectare in retea. Daca energia din panouri nu e suficienta pentru a suporta consumatorii, se va suplimenta energie din baterie, si in ultimul rand din retea.

**PV -> Load - Battery - Grid**

**Load <- PV - Battery - Grid**

**Feed-in priority mode:** un mod ce prioritizeaza injectarea in retea (ferme solare, etc.). Energia din panouri va fi folosita cu prioritate pentru consumatorii casnici; surplusul va fi folosit pentru injectare in retea, iar restul pentru incarcarea bateriilor. Daca energia din panouri nu e suficienta pentru a suporta consumatorii si a injecta in retea, va fi folosita energia stocata in baterie.

**PV -> Load - Grid - Battery**

**Load <- PV - Battery - Grid**

**Back-up Mode:** Tacest mod prioritizeaza incarcarea bateriei, fiind folosit de regula acolo unde reseaua functioneaza deficitar (intreruperi frecvente, etc.). Energia din panouri va fi folosita cu prioritate pentru a incarca bateria, surplusul fiind trimis la consumatorii casnici; ce ramane va fi injectat in retea. Daca panourile sunt insuficiente, bateria se poate incarca de la retea. Energia stocata in baterie va fi folosita numai cand reseaua e cazuta si energia de la panouri insuficienta pentru a sustine consumatorii casnici.

**PV -> Battery - Load - Grid**

**Load <- PV - Grid - Battery**

**Back-up Load:** Mod in care se prioritizeaza consumatorii casnici, fiind potrivit acolo unde reseaua e problematica. Energia din panouri va fi folosita cu prioritate pentru consumatorii casnici; surplusul va fi folosit pentru incarcarea bateriilor, iar restul pentru injectare in retea. Daca energia din panouri nu e suficienta pentru a suporta consumatorii, se va suplimenta energie din retea, si in ultimul rand din baterie. Energia stocata in baterie va fi folosita numai cand reseaua e cazuta si energia de la panouri insuficienta pentru a sustine consumatorii casnici.

**PV -> Load - Battery - Grid**

**Load <- PV - Grid - Battery**

**Time-based Control** Daca se activeaza, in cadrul modului de lucru ales se pot seta valorile puterilor de incarcare si descarcare a bateriei si limitele de incarcare respectiv descarcare, pe intervale orare de timp.

De exemplu, pe timpul noptii atunci cand panourile nu dau energie, se pot seta valori mai mici de incarcare decat in timpul zilei, etc.





**Battery:** contine setarile de management a incarcarii si descarcarii bateriei. Comportamentul unora dintre setari depinde de **Work Mode**-ul ales, precum si de tipul bateriei (Pb-acid, Li-Ion etc.).

**Battery Brand Selection:** se selecteaza tipul/modelul bateriei (Pb-acid, Li-Ion generic sau model din lista). In continuare se prezinta setarile pentru o baterie Li-Ion, care sunt cele mai complexe.

**Comm.address:** adresa de comunicatie cu BMS-ul bateriei. Daca nu se specifica altfel, se lasa valoare implicita 1.

**Maximum charge / discharge power (W):** Valorile absolute maxime a puterilor de incarcare, respectiv de descarcare a bateriei.

**Charge to(%) / Discharge to(%):** Capacitatea bateriei pana la care va fi incarcata, respectiv descarcata.

**Discharge End SoC(on-grid)(%):** Capacitatea pana la care va fi descarcata bateria daca se accepta incarcarea de la retea.

**Start force charging when reaching(%) :** Incepe incarcarea forzata daca gradul de incarcare e sub cel specificat.

**Stop force charging when reaching(%):** Opreste incarcarea forzata daca gradul de incarcare este peste cel specificat.

**Maximum Grid Forced Charge Power (W):** Puterea maxima consumata din retea pentru a incarca fortat bateria. Are relevanta doar daca **Charge by Grid** este ON. **Charge by Grid:** Permite sau interzice incarcarea din retea. **ATENIE!** Daca e pe OFF, ignora inclusiv cererea de incarcare forzata semnalizata de baterie!

**Maximum grid charge power (W):** Puterea maxima luata din retea pentru a incarca bateria.

**Maximum input power from Grid(W):** Puterea maxima luata din retea.

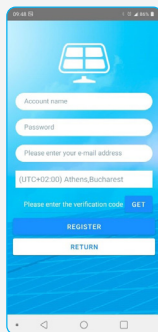
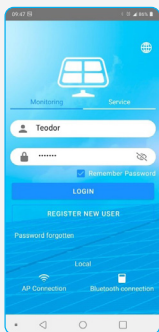
**Charge by grid to(%):** Incarcarea din retea se va face pana la nivelul de incarcare specificat.

## C. Crearea contului de monitorizare al proprietarului

Recomandam ca, la fiecare instalare de inventar sa se faca si un cont de monitorizare al proprietarului, astfel ca firma instalatoare va putea sa aibe o evidenta mai clara a site-urilor instalate, iar la nevoie firma instalatoare, prin intermediul contului de instalator, va putea monitoriza si eventual diagnostica echipamentele instalate de la distanta.

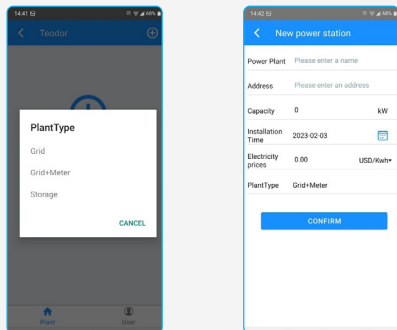
**ATENTIE!** Pentru aceasta operatiune trebuie sa aveti acces la internet (mobile sau rezidential).

1



Se porneste aplicatia si se apasa butonul REGISTER NEW USER, si se intra in ecranul de creare a contului. Impreuna cu proprietarul stabiliti un nume de cont reprezentativ, o parola, adresa de e-mail a proprietarului si fusul orar (+2 pentru Romania). In continuare apasati butonul GET pentru a primi pe e-mail-ul proprietarului codul de verificare. Se introduce si acest cod si se apasa REGISTER. In acest moment se va crea contul si veti intra in cont.

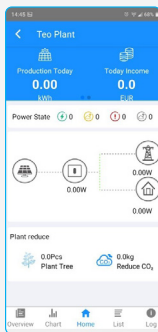
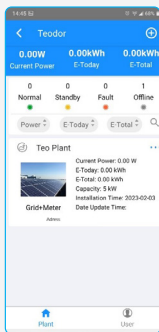
2



Acum alegeti tipul de inverter: On Grid, On Grid cu CT sau SmartMeter, sau hibrid. Dupa ce alegeti varianta corecta, aveti posibilitatea sa completati impreuna cu proprietarul celelalte date ale site-ului: Numele si adresa acestuia, puterea instalata (kW), data instalarii, pretul energiei electrice per kWh. Daca datele introduse sunt corecte apasati CONFIRM.

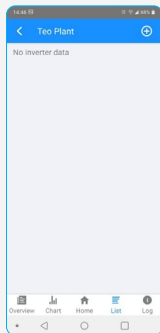


## 3



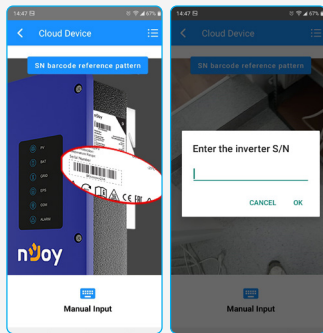
Astfel ajungeti in ecranul cu site-urile de energie solara ale proprietarului (in cazul nostru este doar una). Selectati-l ca sa intrati in ecranul de monitorizare a site-ului (ecranul Home). Aici se poate vizualiza fluxul de energie electrica de la instalatia solara catre consumatori si/sau catre retea. Deocamdata toate valorile sunt 0 pentru ca nu au fost introduse echipamentele. Pentru a accesa lista invertoarelor din acest site apasati butonul List.

4



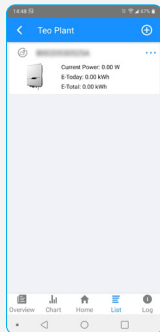
Deocamdata lista de inverteare este goala. Pentru a introduce inverterul proaspat instalat, apasati butonul + aflat in dreapta-sus.

5



Se va cere introducerea S/N (Serial Number) a inverterului. Aceasta se poate face in doua feluri: fie se scaneaza codul de bare aflat pe eticheta de pe inverter ori de pe ambalajul acestuia, fie se introduce manual (apasand butonul Manual Input aflat in partea de jos).

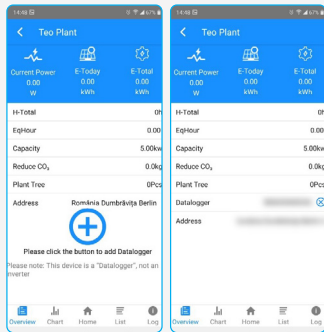
6



Daca S/N-ul introdus este corect, aplicatia va identifica tipul de inverter si il va afisa in lista de invertore.

**ATENTIE!** *Daca inverterul a fost deja asignat unei alte persoane sau la o alta locatie, S/N-ul introdus nu va fi recunoscut. In acest caz contactati tehnicianul nJoy pentru a remedia situatia.*

7



In cazul in care inverterul are un CT sau SmartMeter atasat, atunci va trebui introdusa seria inverterului si in ecranul Overview.

Se apasa butonul Overview si in acest ecran se apasa butonul albastru +. Se introduce seria inverterului. In acest moment configurarea site-ului de energie solara este terminata si aplicatia va incepe sa primeasca date despre productia de energie si modul in care a fost repartizata.

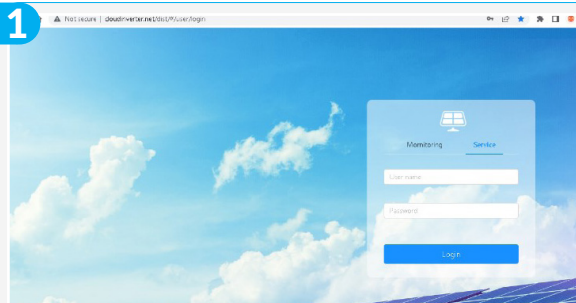


Prin apasarea butonului Home se poate vizualiza modul in care energia electrica produsa este repartizata.

**ATENTIE!** Transmiterea datelor nu se face instantaneu, rata de reimprospatare e de 5-10 minute, asa ca daca vi se pare ca datele afisate nu sunt corecte acordati timp aplicatiei sa-si actualizeze informatiile.

In momentul in care in dreptul iconitei verzi de la Power State apare cifra 1, asta inseamna ca exista 1 invertor in functiune care genereaza energie si deci invertorul e on-line.

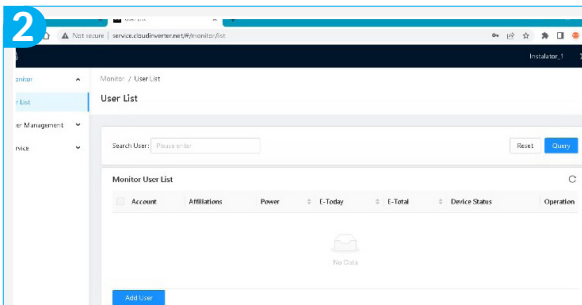
## C. Crearea contului de monitorizare al proprietarului



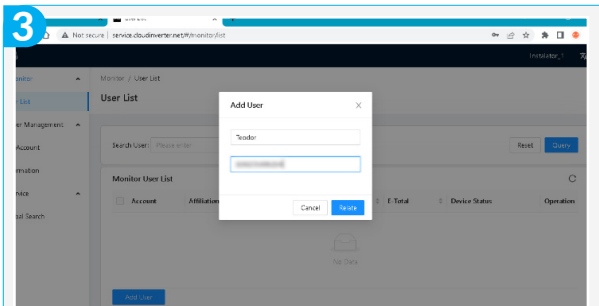
Deschideti browser-ul de internet si in fereastra de adresa introduceti [www.cloudinverter.net](http://www.cloudinverter.net)

Se va afisa pagina de start a aplicatiei de management

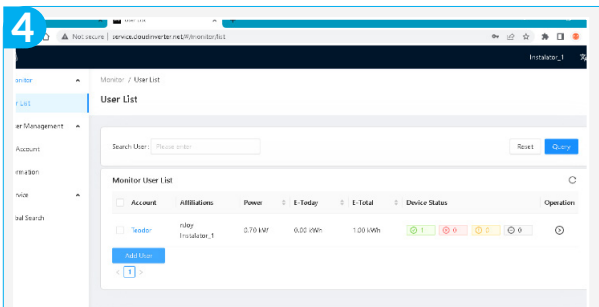
Selectati varianta 'Service' si introduceti numele si parola contului de instalator furnizat de nJoy.



Odata intrat in contul de instalator, aveti posibilitatea sa monitorizati si sa configurati de la distanta echipamentele instalate. Pentru aceasta intai trebuie sa adaugati contul proprietarului la lista de utilizatori (User List). Apasati butonul 'Add User'.



În fereastra care se deschide va trebui să introduceți numele contului proprietarului, precum și S/N-ul echipamentului (invertorului) pe care l-ați instalat. Dacă datele introduse sunt corecte, apăsați butonul 'Relate'.



Contul proprietarului va fi adăugat la User List. Puteți vedea starea instalației (dacă este online, offline, în avarie etc.) precum și ce putere furnizează din panouri, câtă energie a furnizat în ziua respectivă sau per total, etc.

**5**

The screenshot shows a web browser interface for cloudinverter.net. On the left is a dark sidebar menu with a blue 'Account' button. The main content area displays a dashboard with several widgets: 'Power' (664.00), 'E-Today' (0.00 kWh), and 'Total Plant' (1 units). Below these are tabs for 'Normal', 'Fault', 'Standby', and 'Offline'. A table lists plant details:

Status	PlantName	E-Today	E-Total	Start Time	Update	PlantType	Power	Efficiency	Operation
🟢	Teo Plant	0.00 kWh	1.00 kWh	2023-02-03	2023-02-06 12:07:22	Grid+Meter	664.00W	0	Edit Delete

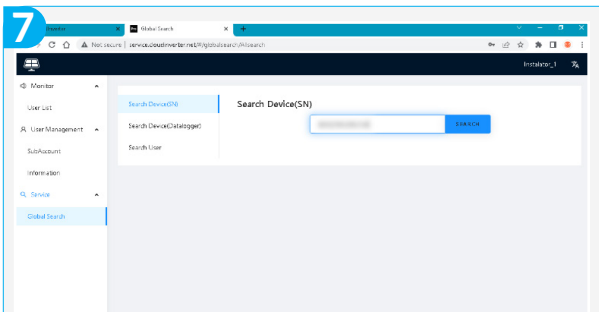
Cu click pe numele contului (albastru) se va deschide in browser o noua fereastră (tab) care va contine contul de monitorizare al proprietarului (user account). Aici se pot vedea amanuntit date despre echipamentul instalat, locatia instalarii etc.

**6**

The screenshot shows the 'History Log' page in the cloudinverter.net interface. It features a 'Back' button, a search bar, and a table of events. The table has columns for Name, Account, Type, S/N, Time, Event, and Status.

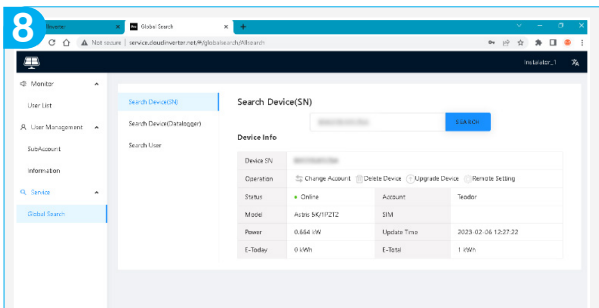
Name	Account	Type	S/N	Time	Event	Status
Actris SK/1P2T2	Teodor	Actris SK/1P2T2		2023-02-03 17:31:39	CN-Remote off	Action
Actris SK/1P2T2	Teodor	Actris SK/1P2T2		2023-02-03 13:32:42	Ci-Meter List	Action
Actris SK/1P2T2	Teodor	Actris SK/1P2T2		2023-02-03 13:32:18	A2-Grid absent	Action
Actris SK/1P2T2	Teodor	Actris SK/1P2T2		2023-02-03 12:31:25	A2-Grid absent	Action

Accesand meniul 'Log / History Log' din contul proprietarului, se pot vizualiza toate evenimentele aparute in functionarea invertorului, notificari, erori, etc.



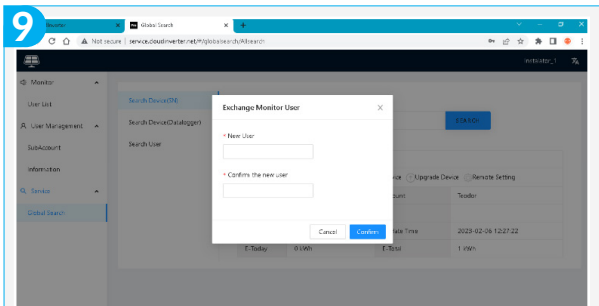
Din meniul 'Service/Global search' se poate cauta echipamentul dupa S/N.

**ATENȚIE!** Pentru ca echipamentul sa poata fi gasit, el trebuie sa fie asociat unui cont proprietar, si acest cont sa fie introdus in aplicatia de service de catre instalator.

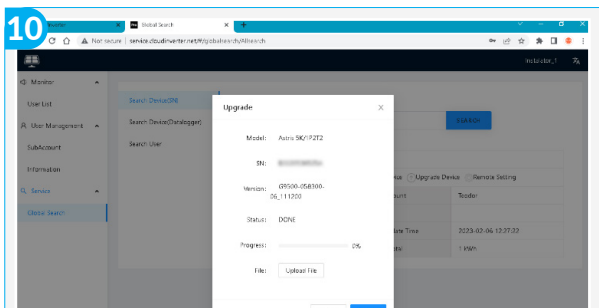


Daca echipamentul e gasit, se afiseaza date referitoare la acesta (model, putere furnizata, starea curenta, de ce cont proprietar apartine, etc.). Asupra lui se pot executa o serie de actiuni, accesibile in dreptul liniei 'Operation'

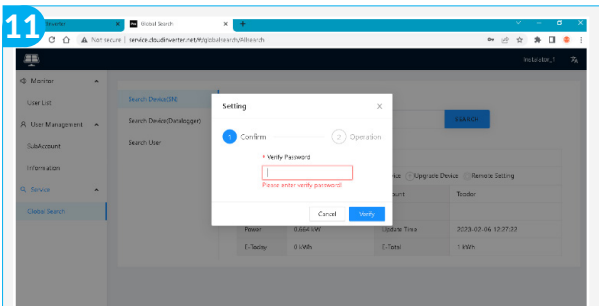




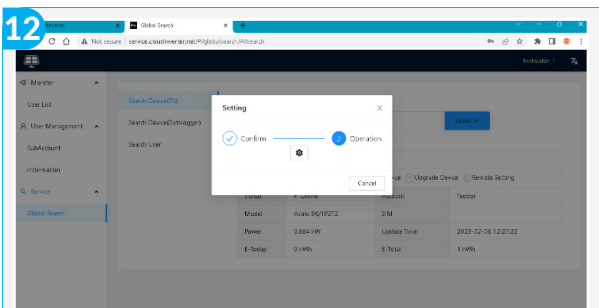
Astfel, prin accesarea butonului 'Change Account' se poate transfera echipamentul în contul unui alt proprietar, evident contul-destinație trebuie să fie și el introdus în zona de service a aplicației. Butonul 'Delete Device' permite ștergerea echipamentului din contul proprietarului.



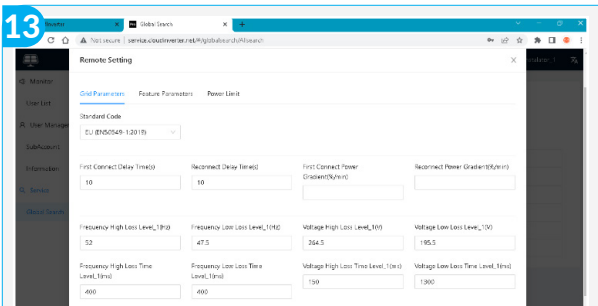
Cu ajutorul butonului 'Upgrade Device' se poate face update de firmware de la distanță.



Butonul 'Remote Setting' permite modificarea anumitor setari si parametri ai inventoriului. Pentru a avea acces la aceste setari, trebuie introdusa parola admin si apasat butonul 'Verify'.



Daca parola a fost introdusa corect, va apareea simbolul de setari (o rotita dintata). Accesand acest simbol se intra in fereastra de setari si parametri.



Aceste setari sunt impartite pe categorii: Grid parameters, Feature parameters si Power Limit. Sunt afisate valorile curente ale setarilor; acestea se pot modifica si, apasand butonul 'Upload' din partea de jos, se trimit spre echipament modificand setarile anterioare.

**ATENȚIE!** Parametrii care sunt 'blank' adica nu au valori afisate nu pot fi setati sau modificati.

