

VERSION V1.0.11

# **Manual Webserver**

# Complex energy management and optimization solutions

Digitize, visualize and optimize energy consumption



Released document type Manual	Public	:	
document type Manual	· ·		
Manual			
DOCUMENT ID.	REV.	LANGUA	GE PAGE
9AKK108471A0273	в	EN	1/22
ABB Electrification Smart Power		9AKK108471A0273 B	9AKK108471A0273 B EN

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# 1. Hardware requirements

The web server can be installed on all devices in the ALS-profi-s / AZS-eco-s / AZS-ecs-s series from serial number 5000 (required firmware - v.20.6.a).

The web server and firmware are updated with the ALS-Visual 8/9 software.

The users are stored in the control unit and can be changed using the ALS-Visual 8/9 software.

# 2. Quick starter

The Quick starter allows the user a quick initial configuration and creates customized dashboards and meter groups.

If no dashboards have been created yet, the start page looks like this:

	00		
	28		
	No dashboards	exist yet.	
	☆ Create standard configuration	+ Create first dashboard	
L			 j

To create the standard configuration, click on "Create standard configuration". If you are not yet logged in, a login dialog box will open where you must log in to continue the process.

Login			
Username			
Password			
	Login		
	Login		

If meter groups have already been created, a further dialog appears asking whether you want to overwrite these meter groups. The process is continued by pressing the "Overwrite meter groups" button.



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Dashboards that can currently be created are Overview, Charging stations, PV and Load control.

Charging Stations PV Load Control	+ New 🕒 Import	Overview	Charging Stations	PV	Load Controll	
-----------------------------------	----------------	----------	-------------------	----	---------------	--

### 3. Menu

The menu is divided into the following items:

- 1. Dashboard
- 2. Data analysis
- 3. Current values
- 4. Input/Output
- 5. Load groups
- 6. Flags
- 7. Alarms
- 8. Trend Chart
- 9. Playlists
- 10. Settings
- 11. Login / Logout

⑥	Dashboards
Q	Data analysis
ීට	Current values
$\downarrow$	Input/Output
X	Load groups
Ρ	Flags
<u>je</u> j	Alarms
~7	Trend chart
$\triangleright$	Playlists
ණ	Settings
[→	Logout

In addition, you can use "Bright mode" or "Dark mode" to switch between light and dark mode and "Collapse sidebar" to collapse the menu bar.



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# 4. Login / Logout

You must be logged in to configure the website. If you click on the "Login" menu item, you will be redirected to a login window with your username and password.

Username		
Password		
	Login	

As the web server runs on the controller, the login data is also synchronized via this. The predefined users can be found in the respective controller in the "System" sub-item under user accounts.

System Settings					
<u>*</u>	Other Parameters:				
System	Property:	Value:			
4	Name::	Unterstation-1			
Tariff/Synchr.	Inventory No.:				
S⊢4	LCD Backlight:	Automatic			
Clock relay/Holidays	HW-Fehlererkennung:	inactive			
<u>#11</u>	Modbus-ID:	1			
In/Outputs,VS	Deliver management(ESM)	I/O's, Inactive, Digital I/O 1, Digital I/O 2, Di			
A.	Clock/Reset	, 0,			
ECO controller	EMail	, , , , 25, 0, , 0, , , , , , , ,			
<b>N</b>	Seriel Inerface	Modbus-Server, 38400, 8/none/1			
Alarm proameters	User accounts				
134	🕀 User 1:	Admin,			
Special Control	± User2;	<i>i</i>			
-	User 3:				

### 5. Dashboard

### 5.1. Dashboard

In information management, a dashboard is a graphical user interface that is used to visualize data. The settings are saved in the controller, so the dashboard is displayed in the same way in all browsers.

#### 5.1.1. Setting options

Important! → In principle, dashboards can only be added, edited, deleted or saved if you are logged in (see Login / Logout).

With "New" you can create a new dashboard. If you want to import an existing dashboard, you can do this by clicking on "Import" (select exported dashboard in the file manager).

The dashboards that have already been created are also listed here.

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To edit a dashboard, the following button must be pressed:



### 5.2. Widgets

A widget is an element on a user interface that can be used interactively.

#### 5.2.1. Setting options

To add a widget to the dashboard, one of the following elements must be selected by clicking on it:

000	Chart	<i>دی</i>	Current values	٩	Gauge
Ϋ́	Consumption value	B	Energy flow	₹	Outputs
₩ N	Image	\$\$\$	Weather	U	Date/Time
ß	Charging station	~	Trend chart		Exchange price
ŀ	Pie chart				

Important! → A widget can only be added to a dashboard that is editable (see setting options).

There are 3 icons in the top right-hand corner of the newly inserted widget:

- Settings As soon as a widget has been inserted, it must be set or configured. The settings menu varies depending on the widget - but usually includes title, data source, ...
- Duplicate Copy the widget and paste it again at the end of the dashboard.
  Delete
  - Deletes the widget.

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Important! → a widget can only be edited, duplicated or deleted if you are logged in (see Login / Logout).

### 5.3. Widgets in detail

#### Chart

With this widget, the performance and consumption data of the individual meters and meter groups can be displayed in a chart and thus compared.



Setting options:

- Title of the widget
- Chart type (bar, line and range chart)
- Type of data (performance and consumption data)
- Stacking multiple values
- Period
- Meters or meter groups to be displayed in the diagram

The consumption data can also display price and CO2 savings.

#### Current values

This widget lists the name and power consumption of certain meters or meter groups and is updated every 5 seconds.

Setting options:

- Title of the widget
- Meters or meter groups to be listed in this widget

Current values	<u>ش</u> - ک
PV syster	n 36 kW

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#### Gauge Chart

This widget displays the performance of a selected meter or a selected meter group in the form of a speedometer. The difference to the "Current value" widget is that only one value can be displayed.

#### Setting options:

- Title of the widget
- Meter or meter group
- Minimum and maximum value of the dial chart



#### Consumption value

With this widget, depending on the requirements, the consumption value, costs, and CO2 savings of specific meters or meter groups can be displayed for a certain period of time. Using arrows, one can switch back and forth between the different time periods.

Verbrau	chswert	\$\$ C 🛍	Verbrauch	swert	\$\$ C D	Verbrauc	hswert	\$\$ C D
<	Gesamt 24.283,2 kWł	n >	<	Heute 19,2 kWh	>	<	Diesen Monat 711 kWh	>
Verbrau	chswert	ŵ 🗘 🛍	Verbrauch	swert	愈 〇 面			
<	Dieses Jahr 7.694 kWh	>	<	Heute 19,3 kWh <sup>1,49 kg CO2</sup> 9,65 c	>			

Setting options:

- Title of the widget
- Meter or meter groups
- Default time range (Total, Today, This month, This year, Switch automatically)
- → With "Switch automatically", the system automatically switches between the specified time periods after a few seconds (manual operation of the arrows is not necessary).
- Display consumption data (kWh)
- Show price
- Show CO2 savings
- Show degree of self-sufficiency

#### Energy flow

This widget shows the energy flow of a system. Depending on requirements, 1 grid, 2 generators, 2 consumers and 1 battery can be added to the network. If a selected meter or a selected meter group performs more than one measurement, a drop-down field appears next to the text field with all measurements, one of which must be selected. For a detailed view, you can change the icons of the devices using predefined icons.

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#### Setting options:

• Title of the widget





#### Outputs

This widget provides an overview of inputs/outputs, load groups and flags that can be switched on and off manually.

#### Setting options:

- Title of the widget
- IOs, load groups or flags that should be switched on and off manually in the widget

Outputs				9 9 9	Ŵ
	RM Leistun	igsscha	lter ~ Or		
	Auto	Off	On		

#### Image

This widget offers the possibility to add an image to your dashboard.

Setting options:

- Title of the widget
- File (possibility to upload an image file)
- Display mode (centering and filling)
- → "Fill" fills the image in the entire widget area
- → "Center" places the image in the middle and does not change the size of the image



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#### Weather

This widget provides information about the weather in a set city.

#### Setting options:

- Title of the widget
- City



#### Date / Time

This widget provides information about the date and time.

#### Setting options:

• Title of the widget



#### Charging station

This widget provides information about the set charging station. In addition, a status can be selected and controlled using the button or switch view.

#### Setting options:

- Title of the widget
- Meter or charging station
- Show names
- IO, load group or flag that should be controlled manually for the widget
- Push-button or switching view



The color of the charging station symbol reflects the status of the charging station:

Status P	Ready 0 kW	ᠵᡗᡃ	Status P	Unknown 0 kW	۶ď
Status Co	onnected 0 kW	ᠵᡗᡃ	Status P	Charging -10,4 kW	र्द्रि

#### Trend chart

This widget displays the trend chart. Values such as the current value and setpoint as well as characteristics such as the switch-off characteristic, the switch-on characteristic, the trend value, permitted work

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and the emergency stop characteristic are displayed. The load groups that have been switched off are also displayed.

#### Setting options:

• Title of the widget



#### Exchange price

This widget provides information about the electricity price for today/tomorrow and offers a clear overview with the help of values such as the current, minimum and maximum price for both days.

#### Setting options:

• Title of the widget



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#### Pie chart

Like the diagram, this widget can be used to display consumption data from the individual meters and meter groups in a diagram and can therefore be compared.

In contrast to the diagram, instantaneous values can also be displayed here.

Setting options:

- Title of the widget
- Type of data (consumption values, instantaneous values)
- Period (today, this month, this year)
- Display name, value and percentage
- Meters or meter groups to be displayed in the diagram

In the widget itself, the diagram can also be saved as an image using the following symbol at the top right:



### 6. Data analysis

Here, performance and consumption data from the individual meters and meter groups can be compared and displayed in a diagram. The "Add meter" button can be used to add the values of a meter or meter group to the diagram. The respective meter is deleted again with "Delete meter". If a meter that performs more than one measurement is selected, a drop-down field appears next to the text field with all measurements, one of which must be selected. If a color has not yet been defined for a meter group, you can set it using a color dot.



The type (power and consumption data), the period (day, month, year) and a time period (from - to) can also be set.

Available data:

ΤΥΡΕ	PERIOD	DATA
POWER	Day	Last 24 hours per 15 minutes 1 value = 192 values
POWER	Month	Last 2 months per day 1 value = 62 values
POWER	Year	Last 2 years per month 1 value = 24 values
CONSUMPTION	Day	Last 50 days per day 1 value = 50 values
CONSUMPTION	Month	Last 24 months per month 1 value = 24 values
CONSUMPTION	Year	Last 8 years per year 1 value = 8 values

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Type Power data ↔	Period Day c	from 09.04.2025	♥	to 23.04.2025 ♥	
Further setting options:					
<i>Res</i> <i>Activate zoom</i> <i>(As soon as zooming is activated, an area that is to be displayed en- larged can be marked)</i>	et zoom דו בו ב Display as a line c	Display as a ba	ar chart Sa Downloo file	ve chart values in Excel fi bad diagram as PNG	le

The comparison between a meter group and a meter could look like this:



# 7. Current values

The meter ID, the name, the type of measurement (voltage, current, power, ...) and the value (volts, amps, watts, ...) of all meters are listed here and updated every 5 seconds. You can use a search field to filter for specific values.

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Current val	les		
Filter			
Enter search te			
#	Name	Measurement	Value
1	Lastkontrollsystem	Hauptzähler	0 kW
2	Lastkontrollsystem	Sollwert	25 kW
3	Digital I/O 2		0 kW
4	PV Anlage	U±1/N	247,8 V

### 8. Input/Output

Overview of all inputs and outputs that can be switched on and off manually. You can use a search field to filter for specific inputs/outputs.

Important! → Only logged-in users can switch inputs/outputs on and off manually (see Login / Logout).

Input/Output		
Filter		
Name	Value	State
Digital I/O 1	Off	
Digital I/O 2	0 kW	
Digital I/O 3	Off	
RM Leistungsschalter	On	Auto Off On
Digital I/O 5	100 %	Auto Off On

# 9. Load groups

Overview of all load groups that can be switched on and off manually. You can use a search field to filter for specific groups.

Important! → Only logged-in users can switch load groups on and off manually (see Login / Logout).

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Load groups		
Filter		
Enter search term		
Name	Value	State
Lastgruppe 1	0%	Auto Off On
Lastgruppe 2	0%	Auto Off On
Lastgruppe 3	0%	Auto Off On

### 9.1. Load group switching

Below the table of load groups are the corresponding circuits. Information such as the load group number, the name of the load group, the time when the load group was switched on or off, the status and the reason for switching and the seconds for which the load group was switched off can be displayed. A date picker can be used to call up the switching operations for a specific day. If the date has not yet been set, the data for today is displayed. The load group search field also filters the circuits at the same time.

⊟ 04/23/2025						×
Load group no.	Designation	Time	State	Reason	Shutdown duration (in seconds)	

# 10. Flags

Flags are used to save the status of a condition or event. Here is an overview of all flags that can be switched on and off manually. You can use a search field to filter for specific flags.



Important! 🗲	Only	logged-in	users	can	switch	flags	on	and	off	manually
	(see Log	gin / Logout).								

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# 11. Alarms

Overview of all alarms that can be acknowledged using the "Acknowledge" button, deactivated using "Deactivate" and deleted using "Delete". You can use a search field to filter for specific flags.

Important! 🗲	Only	logged-in	users	can	acknowledge,	deactivate	or	delete	alarms
	(see <mark>Lo</mark>	ogin / Logout).							

State	
Active	Acknowledge
	State

### 12. Trend chart

The trend chart of the controller is displayed here with values such as the current value and setpoint as well as characteristic curves such as the switch-off characteristic curve, the switch-on characteristic curve, the trend value, permitted work and the emergency stop characteristic curve. The load groups that have been switched off are also displayed.



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## 13. Playlists

Playlists allow you to seamlessly display a series of dashboards one after the other. Ideal for events, trade fairs or information stations where several topics need to be covered.

#### **Create playlists**

- Click on **Playlists** in the sidebar.
- Create a new playlist and add several dashboards to be displayed.
- For each playlist, select how long a dashboard should be displayed before switching to the next one.
- Press the **play button** to start the playlist and automatically display the dashboards in the specified order.

	Edit playlist	Can	cel Publish Playlist	
	Name			
	Playlist Dashboards			
	Available dashboards			
	Dashboard 1 Dashboard	2 Dashboard 1	∽	
	Interval	Unit		
	30	Seconds 🗢		
ists				Add new playlist
	↑ DASHBOARDS			
ards	Dashboard 1 Dashboard 2 Dash	pooard 1		

### 13.1. Lobby mode

Playlists Saved play NAME Playlist Dashbo

#### Activation of the lobby mode

• Go to your dashboard and select the **Activate lobby mode** option under Settings (3 dots). Your dashboard is then displayed in full-screen mode, without distractions from other user interface elements.

Lobby mode is ideal for presentations where you want to ensure that the audience only sees the most important information.

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### 14. Settings

### 14.1. General

If "Use full width" is activated, all pages are adjusted to the maximum width of the window. If this is deactivated, the width is limited.

If "Switching function of states" is activated, the switching function of the IOs, load groups and flags is activated. If this is deactivated, the statuses can no longer be switched.



In the next section you can select the language, in which the web server should be displayed.



In addition, information such as manufacturer, serial number, controller, controller version, name and web server version are displayed under this item.

Info Manufacturer ASKI	Controller ALS-Mini-sx xp	<b>Name</b> Unterstation-1
Serial number	Controller version	Web server version
1640	v20.9x	preview

### 14.2. Dashboards

Under "Selected dashboard", you can select a dashboard to be displayed to the user by default when they open the website or navigate to the "Dashboard" menu item.

Important! → a standard dashboard can only be loaded if you are logged in *(see Login / Logout).* 

Selected dashboard Automatic	Dashboards		
Automatic	Selected dashboard		
	Automatic		

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### 14.3. Meter groups

The individual meters can be grouped here. The individual meter values are added together by the meter groups - this has the advantage that you can work with the total value of the devices.

If a meter that performs more than one measurement is selected, a drop-down field appears next to the text field with all measurements, one of which must be selected. You can use a search field to search for the meter group you have already created. If none exist yet, you can add predefined groups using "Add standard meter groups". Meter groups can be added, edited, deleted and saved.



Enter search term	
Hauptzähler Addition and subtraction ♥	
Operator Meter	
+ 🗢 Digital I/O 2	▽ 🗊
+ Add meter	
If you want to edit a meter group, you have the following setting options:	settings
Name of the group	Name
Unit of Power	New meter group
Consumption unit	Unit of power
<ul> <li>Price per unit in €</li> <li>CO2 equipme factor</li> </ul>	kW
CO2 savings factor     Color	Concumption unit
Chart type	kWh
Set upper and lower limits	
	Price per unit in €
As soon as a meter group is created, it has its own color. This re-	
mains the same across the entire web server.	CO2 savings factor
	0.077352
	Color
	Chart turne
	Take from chart
	Set upper and lower limits

### 15. Web server update

To update the web server of a controller, click on "Update WebS" under "Device".

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Bezeichnung: Inventamummer: Steuerungsart:	ASKI-Ind.Elektronik
Steuerung:	
Seriennummer: Version: Sp-Adr:(_x)	5985           20.4         d         Update         2         Update         WebS         reset           0         P:         0         Child:         Image: Child:
	Kein Datenspeicher
	LG     Offline
Letzter Abgleich war am: (	01.01.2003 R

The folder of the desired web server version must then be selected. The update is finally carried out with "Perform update".

Update durchführen	ОК

### 16. Trouble shooting

What can I do if the web server does not work as it should?

#### Update controller firmware

To update the firmware, click on "Update" under "Controller" in the ALS Visual for the corresponding controller. After pressing the button, a file explorer should open where you can select the latest firmware suitable for this controller.



Serial No:	164	0					
Version	20.9	x	Update	2.	Update	WebS	reset
Memory Addr.:(_x)	1	P:	0	Child:			

#### **Restart controller**

To do this, press "reset" under "Controller" in the ALS Visual for the corresponding controller. After pressing the button, the controller should restart.



Serial No:	164	0				
Version	20.9	x	Update	2.	Update Web	S reset
Memory Addr.:(_x)	1	P:	0 0	hild: (		

#### Completely refresh the website & clear the browser cache

To initiate a complete restart of the website, right-click anywhere on the web server's website. A menu appears where you select "Inspect". Now click with the left mouse button on the loading symbol at the top left of the browser. After you have pressed this once, click on the same loading symbol again with the right mouse button. A menu then appears again, where you select "Empty Cache and Hard Reload".

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<ul><li>Send to your devices</li><li>Create QR Code for this page</li></ul>		÷	$\rightarrow$	G	▲ Not secure	192.168.0.55/dashb
Translate to Deutsch		88	4	Norr	mal Reload	Ctrl+R
View page source	Ctrl+U		. ek	Hard	Reload	Ctrl+Shift+R
Inspect		ener		Emp	ty Cache and Hard	d Reload

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# **17. Further information**

### 17.1. List of related documents

Ref #	Document type, title	Document ID

### 18. Appendix

### **19. Revisions**

Rev.	Page/Chapter	Description	Date/issue.
A		Creation of basic document	06.06.2023
A		Webserver Version v1.0.6	04.07.2023
A		Webserver Version v1.0.7	12.07.2023
A		Web server version v1.0.8	24.07.2023
A		Web server version v1.0.9	04.09.2023
A		Webserver Version v1.0.10	14.09.2023
A		Webserver Version v1.0.11	05.12.2023
в		Lobby mode & general updates	16.05.2025

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