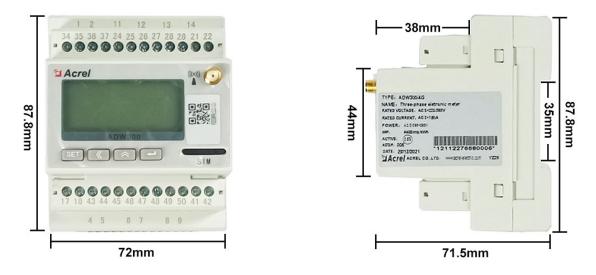


## 0. Installation Dimension

Dimension of necessary hardware including:

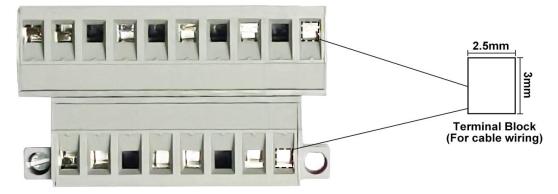
- (1) ADW300-WF/C 3-phase WiFi Wireless Energy Meter (Main Body+Terminal Block+Antenna)
- (2) AKH-0.66/K K- Series Current Transformer (Main Body + Output Cable)



Dimension of Main Body of ADW300-WF/C



(1) Dimension of WiFi Antenna of ADW300-WF/C



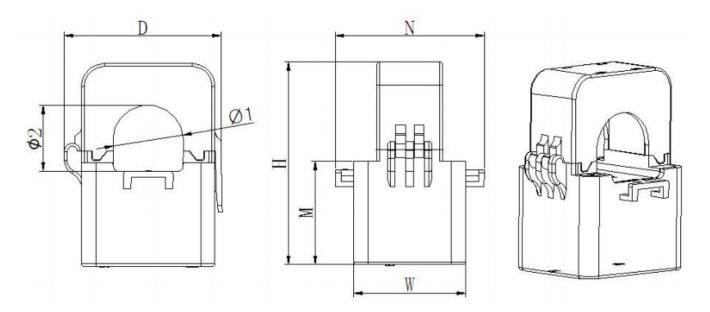
(1) Dimension of Terminal Block of ADW300-WF/C



#### 0. Installation Dimension

Dimension of necessary hardware including:

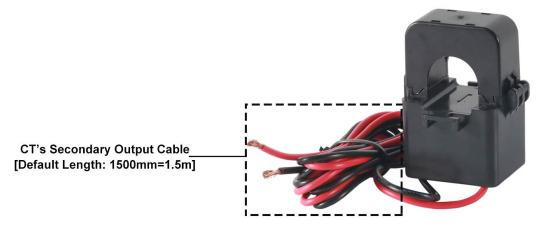
- (1) ADW300-WF/C 3-phase WiFi Wireless Energy Meter (Main Body+Terminal Block+Antenna)
- (2) AKH-0.66/K K- Series Current Transformer (Main Body + Output Cable)



Note: Primary current flow from P1 to P2. The black second wiring is S2, the red is S1. The outlet length is  $1m \pm 10$ cm.

Size (mm)		0	utline siz	æ		Throug	gh size	Tolerance
Туре	W	Н	D	М	Ν	Φ1	Φ2	Tolerance
К-Ф24	39	70. 5	55	36	52	24. 5	23	
К-Ф36	42. 5	81.5	67	40	56	33. 5	35	$\pm 1$
К-Ф50	46. 5	110	90	54	66. 5	47	52	

(2) Dimension of Main Body of AKH-0.66/K K- Series



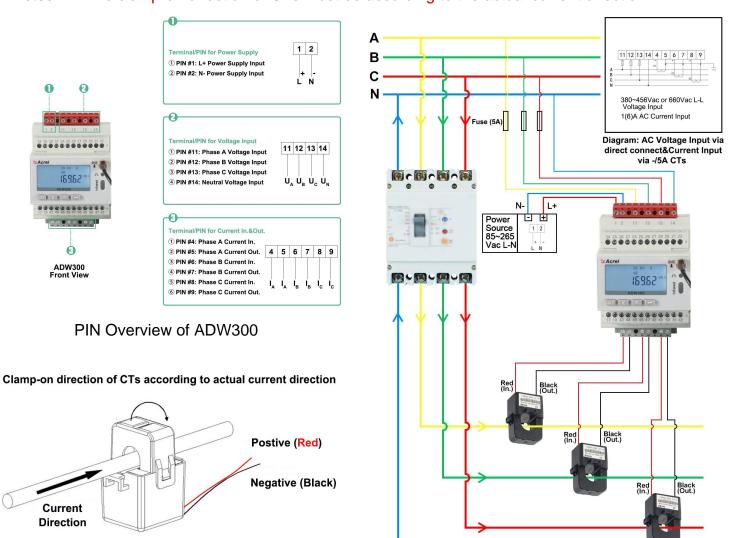
(2) Dimension of Secondary Output Cable of AKH-0.66/K K- Series



## **1. Wiring Illustration**

Only 3 parts of wiring are necessary for ADW300-WF/C 3-phase WiFi Wireless Energy Meter. (1) Auxiliary Power Supply: For power supply of ADW300-WF/C, use PIN 1,2 on ADW300-WF/C, and be aware the volage level of auxiliary power supply must be within range of 85~265Vac/Vdc. (2) Voltage Input: Use PIN 11, 12, 13, 14 on ADW300-WF/C for 3-phase voltage signal input (3) Current input: Use PIN 4,5,6,7,8,9 on ADW300-WF/C paired with AKH-0.66/K K- Series CTs for current wiring (PIN 4, 6, 8 on ADW300-WF/C connected to red wire of 3 CTs respectively for 3phase current input, PIN 5, 7, 9 on ADW300-WF/C connected to black wire of 3 CTs respectively for 3-phase current output)

Noted #1: Make sure the antenna of ADW300-WF/C was covered by WiFi stable signal from the WiFi rounter whose WiFi account name and password allign to the configuration in ADW300-WF/C. [Can preset a WiFi account name and password in factory manufacturing stage. Customer could also change the WiFi configuration in ADW300-WF/C by using RS485 to USB converter and "Acrel ADW300 Adjustment Software". For more detail, contact with loki@acrel.cn] Noted #2: The clamp-on direction of CTs must be according to the actual current direction.



Noted for Clamp-on direction of CTs

Current&Voltage&Power Supply Wiring of ADW300

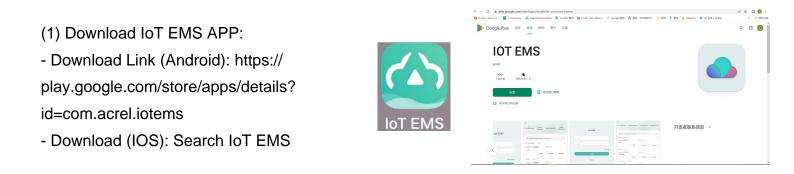


### 2. System Operation

After correctly installing, wiring and powering up the Acrel devices, there are 4 steps to bind these devices with Acrel System before formally using the system:

- (1) Step 1 Download IoT EMS APP on your Mobile Phone;
- (2) Step 2 Register and login your own account.
- (3) Step 3 Create a new Project
- (4) Step 4 Add devices to your new Project (Recommend to add by using APP)

Extra Noted: Acrel IoT EMS APP (for Mobile) and IoT EMS WEB (for PC) share the same data and account, once add the devices using APP, we can check the data on either computer using IoT EMS WEB or on mobile phone using IoT EMS APP.

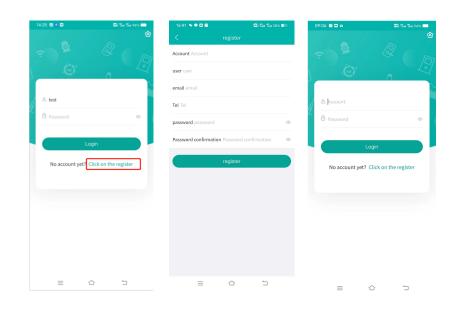


(2) Register your own Account:

- Click on register

- Enter related information for registering account

Login with your new account
 by entering "Account" and "
 Password" you just set





# 2. System Operation

After correctly installing, wiring and powering up the Acrel devices, there are 4 steps to bind these devices with Acrel System before formally using the system:

- (1) Step 1 Download IoT EMS APP on your Mobile Phone;
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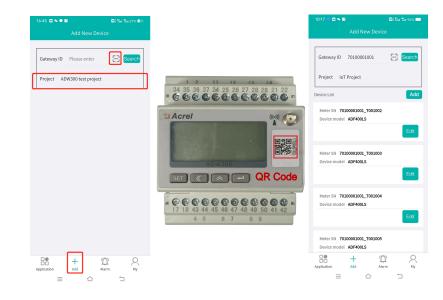
Extra Noted: Acrel IoT EMS APP (for Mobile) and IoT EMS WEB (for PC) Share the same data and account, once add the devices using APP, we can check the data on IoT EMS WEB on PC.

- (3) Creat a new Project:
- "Project management" - "Mv"
- Click "+" icon on the right top

- Choose "Platform prepaid" and fill in other information marked by \*

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- (2) Add Devices to Project:
- Enter "Add" interface
- Select "Project"
- Click "QR Code" scanning icon-Scan the QR Code on ADW300
- Automatically recognize the devices type and SN code





# 3. Acrel IoT Energy Monitoring System (Partail Introduction)

Acrel IoT Energy Monitoring System could be access in 2 different ways:

(1) Access through WEB on your computer.

Access port: https://iot.acrel-eem.com/

(2) Access through APP on your mobile phone

Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

(1) WEB Accesss (Computer):Access Port: https://iot.acrel-eem.com/Account Name: (Enter yours)Account Password: (Enter yours)



(2) APP Accesss (Mobile):
Download Link: https://play.google.
com/store/apps/details?id=com.acrel.
iotems
Account Name: (Enter yours)
Account Password: (Enter yours)



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	L	ogin
	No account yet?	Click on the register

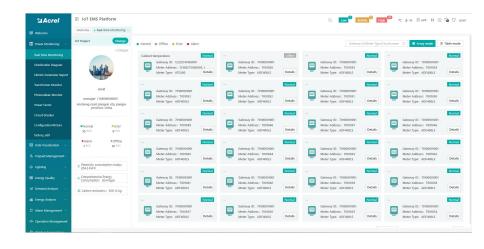


#### 3. Acrel IoT Energy Monitoring System (Partail Introduction)

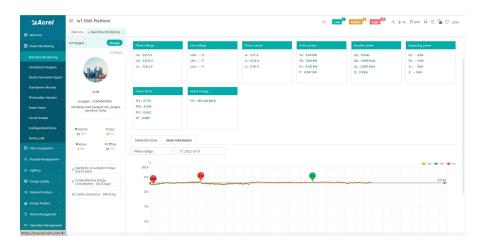
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

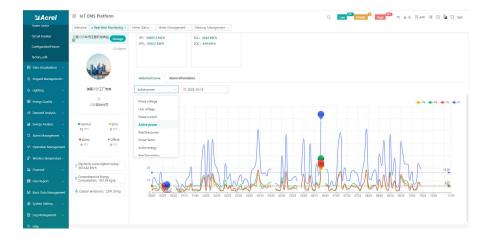
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(2) History Curve: Showing the daily history data curve of all the data that could be collected and upload by energy meter or other basic metering devices.



(2) History Curve: By selecting the items of "data" and "electricity parameter", platform can show the history curve of different data and date.





Contact: Shelly Zhang E-mail: shelly@acrel.cn Mobile: 0086 18702111813

# 6. Acrel IoT Energy Monitoring System (Partail Introduction)

Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

(3) Electricity Parameters Report: Select the "electricity parameters" that you want to show in this report

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(3) Electricity Parameters Report: All the electricity parameters that could be collected by certain energy meter will showed as a report here.

Sa Acrel	IoT EMS Platform												Q L	•• <sup>63</sup> M	ddle	High	·< 4-	6 88 APP	<b>H</b> ()	<b>a</b> 17 ao
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ansformer Monitor	RDOM002		24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.85	34.02					139429.
octovalteic Monitor	> 1/F > 2/F		98	10.14	8.76	8.76	27.66	-7.74	-6.06	-7.02	20.82	13.2	10.68	11.28	35.16					139432.
	> 3/F		76	9.54	8.64	8.34	26.52	-8.28	-6.06	-6.6	20.94	12.6	10.56	10.85	34.02					139434.
	> 4/F		14	10.38	9.18	8.64	28.2	-7.44	-6.42	-6.9	20.76	13.5	11.22	13.1	35.82					139436
	5/F		58	9.9	8.82	8.34	27.06	-8.46	-6.12	-6.84	21.42	13.08	10.74	10.8	34.62					139439
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таракі маладититі ч	70100001001_T001004		56	13.56	11.4	11.82	36.78	3.36	-4.8	-6.35	14.52	15.48	12.36	13.44	41.28					139450
	70100001001_T001005		24	9.66	8.4	8.52	26.58	-8.52	-5.94	-7.02	21.48	12.9	10.32	11.04	34.25					139453.
	70100001001_T001005		64	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.95	21.12	12.54	10.14	10.85	33.54					139455
emand Analysis 🖂	70100001001_7001007		86	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.95	21.06	12.48	10.02	10.8	33.3					139457
	70100001001_T001008		14	10.02	8.22	8.22	26.46	-8.28	-5.88	-5.84	21	12.96	10.08	10.68	33.72					139460
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peration Management	70100001001 T001012		22	10.92	8.28	0.34	27.54	-4.44	-5.94	-7.08	17.46	13.8	10.26	10.93	35.04					139464

(3) Electricity Parameters Report: Report on platform could be exported in "Excel" format to your computer for a brief storage when accessing the IoT EMS WEB platform.

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#### 3. Acrel IoT Energy Monitoring System (Partail Introduction)

Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

(4) Energy Report (Daily): This Interface show the daily energy consumtion report (calculated by forward active energy)

Welcome Power Monitoring	Welcome Real-time Monitoring -											
	Change											
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Multiple Rate Report	U0	0	0.00	24.90	0.00	21.60	0.00	20.80	0.00	21.00	0.00	20.80
Energy Rank		0	0.00	40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80
			0.00	0.00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.00
Loss Analysis		0	0.00	42.40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40
Energy flow										11.05		11.15

(4) Energy Report (Daily): This daily energy report could be also export to computer in "Excel" format

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文件	696	) @ 5 C = 🗿	(1) 新入	東南市局 公式	教課 前	向 視園 开发工具	会员专家	杨夫资源 智能工具	<b>第</b> Q 重3	2命令、提家模板		0	- 世町木の	은 10M1 (1.59포	3.2
	NEW - NEXCER		• <u>△</u> • <u>△</u> •	A* A' = = <u>=</u> ⊗· _ E ± ∃			% 403 +.0 .00	- 5 H	- 12 #元/ d- 12 #元/		A↓ ↓ №序・填充	. Ⅲ 严 . m元版· 行和列·	<b>即</b> 1作表- 3	日录 日 5点回答- 未行工	сд
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From	m Node		h Coat (h		. h Cook (	Y Consumption(kW ·	h Cont (		h Cont (N		· hiCont (N		h'Coot (		
	Node		0.00	0.32	0,00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.30	
			0.00	19.20	0.00	36.00	0.00	15.20	0.00	22.40	0.00	32.00	0.00	30, 40	
		46.40	0.00	30.40	0.00	44.80	0.00	28.00	0.00	39.20	0.00	40.00	0.00	40.80	
		-8.80	0.00	9.60	0.00	9,60	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9,60	4
			0.00	11.20	0.00	12.00	0.00	11.20	0.00	11.20	0.00	12.00	0.00	12.00	
		- 39, 20	0.00	39.20	0.00	40.80	0.00	32.80	0.00	47.20	0.00	40.00	0.00	39.20	
ŵ.		32.80	0.00	32.80	0.00	33.60	0.00	32.80	0.00	12.80	0.00	32, 80	0.00	32.80	
ŵ.		-29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	28.80	
		-17.60	0,00	21.60	0.00	20, 80	0.00	21.60	0.00	20.80	0.00	21.60	0,00	20.80	
W.		- 30, 40	0,00	30, 40	0,00	30, 40	0.00	30, 40	0.00	30, 40	0.00	30, 40	0,00	29,60	
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ŵ.	-	-40.00	0,00	40.80	0.00	40.80	0.00	40.80	0.00	40, 80	0.00	40.00	0,00	40, 80	
		-0.00	0.00	0.80	0,00	0.80	0.00	0.80	0.00	0.00	0.00	0.80	0.00	0.80	
		0 42, 40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40	0.00	45.60	0.00	47.20	
		32.00	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	33, 60	
Tota	1	387. 52	0.00	348.32	0,00	401.92	0.00	356.32	0.00	365.92	0.00	389, 92	0.00	387.50	
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(4) Energy Report (Monthly& Yearly): Same as daily energy report, monthly and yearly energy report could be also checked on platform and exported in "Excel" format.

업Acrel	I IOT EMS Platform							Q	Low Niddl	e High	-rc û -% 89	A00 X ① B	a 😯 acrat
B Welcome	Welcome Real-time Monitoring × User Report ×	Electric I	Parameter Report >	Energy Report ×									
Power Monitoring	IoT Project Change	Energy	Consumption Con	nprehensive Energ	y Consumption	Carbon Dicoide En	nissions						
🖽 Data Visualization 🖂	Enter search content here	Energy	Consumption: Elec	tric	U Date:	Month 🗠 🗐	2022-10	O Sea	rch < Chart	# Export			
& Prepaid Management ~	All Cascading			01		Day		03		04		05	
⇔ Lighting ~	RCOM001		Energy Node		Consumption W-h)	Month	Consumption(k		Consumption(k W-b)		Consumption(k		Consumptio W-b)
🗃 Energy Quality 🗸 🗸	ROOM002		G/F	0.00	2.76	0.00	2.92	0.00	2.01	0.00	2.17	0.00	1.72
sé Demand Analysis 🗠	<ul> <li>1/F</li> <li>2/F</li> </ul>		RDOM001								6.17		
🛍 Energy Analysis 🗠	) _ 3/F		RDOM002								w.		
Energy Analysis A	+ 🗌 4/F		Total	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
Yoy Analysis	□ 5/F												
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Energy Trend	232												
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Collecting Report	70100001001_7001003												
	70100001001_T001004												
Multiple Rate Report	70100001001_T001005												
Energy Rank	70100001001_T001005												
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Energy Flow	70100001001_T001008												
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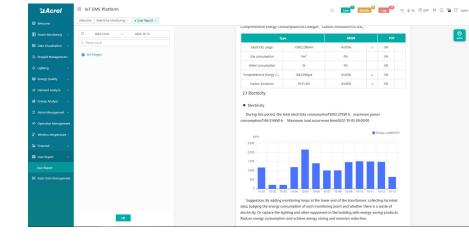


## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

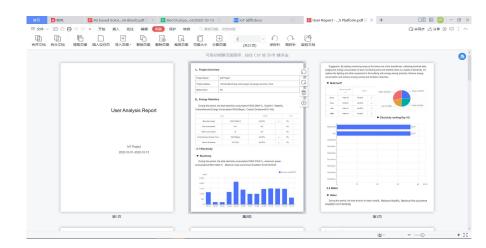
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

(5) User Report: A comprehensive user report including project overview, energy report, energy analysis and etc could be check on platform



(5) User Report: User report could be exported in "PDF" format into your PC for convenient check and storage.



(5) User Report: User report support template customization in buy-out service of Acrel IoT Energy Monitoirng System.

Sacrel	IoT EMS Platform	Q. Low 200 MASHE 9 High 200 - K & -K & APP 🛍 🛈 best
	Welcome Real-time Monitoring ×	
	Project Name	Report Template
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	In The Project sincheng read, Jangvin dty, Jangsu province, china	All projectOverview
		<ul> <li>unergy/statistics</li> </ul>
	173	invergefticknop     intersections
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		eventanlysis     inspection
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User Report	Wegtow masses Sin Bhd	
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Contact: Shelly Zhang E-mail: shelly@acrel.cn Mobile: 0086 18702111813

# 3. Acrel IoT Energy Monitoring System (Partail Introduction)

Main Function of APP side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Trend (5) Energy Consumption Report (Daily, Monthly, Yearly)

Noted: Since APP side and WEB side of Acrel IoT Energy Monitoring System share the same data, normally recommend our user to add the devices to their account using APP and check the data using WEB platform.

13:23 🗊 🖼 🗣	🖽 🖓 🖬 🖓 🖬 77% 🔲
C Device List	
Q Gateway ID/Meter Type	
📮 Cabinet temperature 🛛 💷	
Gateway ID:12202141960001	
Meter address:12108275060005_1	
Meter Type:ATC600	
Coline	
Gateway ID:70100001001	>
Meter address:T001055	,
Meter Type:ADF400LS	
Online	
Gateway ID:70100001001	>
Meter address:T001054	,
Meter Type:ADF400LS	
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Gateway ID:70100001001	>
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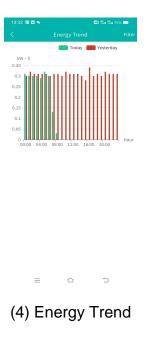
(1) Device List

13:32 😰 🖼 🗣			75% 💷
<	Electrical p	ara…	Filter
Acquisition time	Ua(V)	Ub(V)	Uc(V)
00:00	220.9	220.6	221.4
00:05	221.4	220.8	221.5
00:10	221.9	221.7	222.1
00:15	221.6	221.2	222
00:20	222	221.5	221.9
00:25	221.5	221.2	221.8
00:30	221.9	221.3	221.6
00:35	220.6	220.4	220.9
00:40	221.6	220.7	221.7
00:45	222.3	221.4	222.2
00:50	221.5	221	221.7
00:55	221.9	221.7	221.7
01:00	221.4	220.8	221.6

(3) Parameter Report

13:28 🗗 🖬 🛸		🕮 🖓 n 🖏 76% 🔲
Device Status:Online		2022-10-13 13:25:00
Ua	Ub	Uc
218.8V	217.5V	218.6V
Uab	Ubc	Uca
V	V	V
la	Ib	Ic
0.8A	0.8A	0.8A
Pa	Pb	Pc
0.08kW	0.16kW	0.16kW
р	Oa	Ob
0.48kW	-0.08kVar	0kVar
Oc	0	PFa
0kVar	-0.16kVar	0.666
EPI	EPE	EQL
15258.4kW • h	5790.4kW • h	16692kW • h
EQC		
7143.2kW • h		
Phase voltage	•	2022-10-13 🔍
	- <b>O</b> - Ua - <b>O</b> -	Ub -O- Uc
V		

(2) History Curve





(2) History Curve

13:34 🗗 🖬 👟		🕮 क्षेत्र क्षेत्र 74% 📼 Filte
energy	Data report	CO2
Circuit name	17:00	002
	Cost(¥)	Consumpti on(kW · h)
Z	0.00	0.80
1	0.00	22.40
	0.00	38.40
-	0.00	17.60
	0.00	18.40
Total	0.00	97.60
=	<u>ہ</u>	1

(5) Energy Report