

Document description

Fixed parameters

token: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX (token is generally defined as a 32-bit verification code)

Token used for testing: 6eb6f069523055a339d71e5b1f6c88cc

If token verification is required, please apply for an oss account and apply by yourself

Open Platform Overview

- Growatt's OpenAPI open platform provides standardized RESTful data calling services for authenticated users
- The platform interface is based on the http(s) protocol and uses the OAuth2.0 authentication mechanism.
- Using the API process:
After token verification, please apply for an oss account and apply yourself:
<https://oss.growatt.com/index> (other users worldwide such as Europe),
<https://oss-cn.growatt.com/index> (for Chinese users),
<https://oss-us.growatt.com/index> (North American users)
<https://oss-au.growatt.com/login> (For users in Australia and New Zealand)

Token usage process:

1. If a user has been registered on our server monitoring platform, and the device has been successfully monitored, assign the token to the user and obtain data directly, as shown in the following figure:
2. If you have not registered a user on our monitoring platform, then you need to register the server user at the server address corresponding to the token to put the monitoring URL in the server account; then use the API and obtain data as follows:
 - a. Registered users
 - b. Create a power station based on registered users
 - c. Add collectors according to users and power stations
 - d. Obtain equipment information according to users, power station and collector information, etc.
 - f. Obtain the detailed data of the device according to the device information (first obtain the device type from the 3.3 interface, and then call different

interfaces to obtain the data according to the device type)
You can also specify the token in the account management under the end user settings, as shown below:

Flow Description

-TOKEN validity period

Approved: Permanent (tentative)

-Reasons for invalidation of authorization

User cancel authorization

Interface documentation

Address Header:

Test address:

[http\(s\)://test.growatt.com/v1/](http(s)://test.growatt.com/v1/)

Official address:

Please use the new domain name to visit

(<https://server-cn.growatt.com->https://openapi-cn.growatt.com>) (Chinese server)

(<https://server.growatt.com->https://openapi.growatt.com>) (foreign server)

(<https://server-us.growatt.com->https://openapi-us.growatt.com>) (North American server)

<http://ess-server.atesspower.com> (Era can create)

<http://openapi-au.growatt.com> (for users in Australia and New Zealand)

Overall note:

- interface supports http, see interface definition
- Using GET/POST, see the interface definition, parameter UTF-8 encoding, URLEncode processing
- Data are encoded using UTF-8
- Support for returning to JSON format
- Return data structure as data: body content, error_code: error code, error_msg: error content
- When calling the interface, you need to add token in the HTTP header: the TOKEN obtained by applying to Growatt

- Time format
- Date format: YYYY-MM-DD, example: 2015-04-08
- Time format: YYYY-MM-DD HH:mm:ss, example: 2015-04-03 00:01:00
- 示例图：

Global error code

Error Code	Error Interpretation
0	Normal (General)
10011	No privilege access (generic)
10012	Access Frequency Limitation of 5 Minutes/Time (Universal)
10013	The number per page cannot be greater than 100 (general)
10014	The number of pages cannot be greater than 250 pages (general)
-1	Please use the new domain name to access (https://server-cn.growatt.com -> https://openapi-cn.growatt.com) (https://server.growatt.com -> https://openapi.growatt.com)(https://server-us.growatt.com -> https://openapi-us.growatt.com)

Error Code	Error Interpretation
0	Normal (General)
10011	No privilege access (generic)
10012	Access Frequency Limitation of 5 Minutes/Time (Universal)

Error Code	Error Interpretation
10013	The number per page cannot be greater than 100 (general)
10014	The number of pages cannot be greater than 250 pages (general)
-1	Please use the new domain name to access (https://server-cn.growatt.com -> https://openapi-cn.growatt.com) (https://server.growatt.com -> https://openapi.growatt.com)(https://server-us.growatt.com -> https://openapi-us.growatt.com)

Global error code

1.2 Modify user information

A brief description:

- Interface to modify user information

Request URL:

- [http\(s\)://test.growatt.com/v1/user/modify](http(s)://test.growatt.com/v1/user/modify)

Request method:

- post

Parameters:

Parameter Name	Whether Required	Type	Description
c_user_id	Yes	string	User ID
mobile	Yes	int	Mobile number
agentCode	No	string	Installer code

Back to example

```
{
  "data": "",
  "error_code": 0,
```

```
"error_msg": ""  
}
```

Return parameter description

Parameter Name	Type	Description
error_code	int	0: Normal return, 10001: System error, 10002: User name ID is empty, 10003: User does not exist, 10004: User ID does not match token, 10014 : Installer coding error
error_msg	string	Error message prompt

Remarks

1.3 Verify that the username is duplicated

A brief description:

- Verify that the username is duplicated

Request URL:

- [http\(s\)://test.growatt.com/v1/user/check_user](http(s)://test.growatt.com/v1/user/check_user)

Request method:

- post

Parameters:

Parameter Name	Whether Required	Type	Description
user_name	Yes	string	username

Back to example

```
{  
  "data": "",  
  "error_code": 0,  
  "error_msg": ""  
}
```

Return parameter description

Parameter Name	Type	Description
error_code	int	0: Normal return, 10001: Server exception, 10002: Username is empty, 10003: Username already exists
error_msg	string	Error message prompt

Remarks

- Get the frequency once every 5 minutes

1.4 Get a list of end users under the merchant

A brief description:

- Get the interface of the end user list under the merchant

Request URL:

- [http\(s\)://test.growatt.com/v1/user/c_user_list](http(s)://test.growatt.com/v1/user/c_user_list)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Description
page	No	int	page number,default 1
perpage	No	int	Number of pages per page, default 20, max 100

Back to example

```
{
  "data": {
    "count": 2,
    "c_user": [
      {
```

```

        "c_user_id": 1,
        "c_user_name": "admin",
        "c_user_email": "imluobao@163.com",
        "c_user_tel": "",
        "c_user_regtime": "2018-02-04 09:46:50"
    }
]
},
"error_code": 0,
"error_msg": ""
}

```

Return parameter description

Parameter Name	Type	Description
c_user_id	int	End User ID
c_user_name	string	End User Name
c_user_email	string	End User Registration Email
c_user_regtime	string	end user registration date
c_user_tel	int	End User Phone
count	int	Total number of end users
error_code	int	0: Normal return, 10001: System error
error_msg	string	Error message prompt

Remarks

2.1 Add power station

A brief description:

- Add the interface of the power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/add](http(s)://test.growatt.com/v1/plant/add)

Request method:

- post

Parameters:

Parameter name	Is it required	Type	Description
c_user_id	Yes	int	User ID to which the power station be
name	Yes	string	power station name
peak_power	Yes	float	peak power (kWp)
latitude_f	No	string	Area country list
latitude_d	No	string	Installer code
currency	No	boolean	currency unit
longitude	No	boolean	longitude
latitude	No	boolean	latitude
timezone_id	No	int	The time zone code of the data displa
plant_type	No	int	Power station type: 0: household pow industrial and commercial power stat alleviation power station
createDate	No	string	Created time
formulaMoney	No	float	Electricity price
city	No	string	city

Parameter name	Is it required	Type	Description
plantAddress	No	string	City

Call example

Parameter name	Is it required	Value	Description
c_user_id	Yes	74	User ID to which the power station be
name	is	bole66	power station name
peak_power	Yes	20	Peak power (kWp)
latitude_f	No	Thailand	Region Country List
latitude_d	no	AFLF6	Installer code
currency	No	\$	Currency unit
longitude	no	30	longitude
latitude	no	22	latitude
timezone_id	No	8	Time zone code for data display
plant_type	No	1	Power station type: 0: Household power Industrial and commercial power stat alleviation power station
createDate	No	2022-10-13	Creation time
formulaMoney	No	1.4	Electricity Price
city	no	bankok	city
plantAddress	No	bankok	City

{

"c_user_id": "74",

```
"name": "bole66",
"peak_power": "20",
"latitude_f": "Thailand",
"latitude_d": "AFLF6",
"currency": "$",
"longitude": "30",
"latitude": "22",
"timezone_id": "8",
"plant_type": "1",
"createDate": "2022-10-13",
"formulaMoney": "1",
"city": "bankok",
"plantAddress": "bankok",

}
```

Return to Example

```
{
  "data": {
    "plant_id": 24832
  },
  "error_code": 0,
  "error_msg": ""
}
```

Return parameter description

Parameter name	Type	Description
plant_id	int	Plant ID

Parameter name	Type	Description
error_code	int	error code
error_msg	string	Error message pro
plant_id	error_code	error_msg
77	0	Return normally

```
{
  "error_msg": "",
  "data": {
    "plant_id": 77
  },
  "error_code": 0
}
```

error_code	error_msg
10001	System error

```
{
  "error_msg": "error_system error",
  "data": "",
  "error_code": 10001
}
```

error_code	error_msg
10002	Username ID is empty

```
{
  "error_msg": "error_User ID is empty",
  "data": "",
}
```

"error_code": 10002

}

error_code	error_msg
10003	The power station name is empty

{

"error_msg": "error_Plant name is empty",

"data": "",

"error_code": 10003

}

error_code	error_msg
10004	Peak power is empty

{

"error_msg": "error_Peak power is empty",

"data": "",

"error_code": 10004

}

error_code	error_msg
10005	User does not exist

{

"error_msg": "error_User does not exist",

"data": "",

"error_code": 10005

}

error_code	error_msg
10006	The power station name already exists under this user

```
{
  "error_msg": "error_Plant name already exists under this user",
  "data": "",
  "error_code": 10006
}
```

Remark

- The acquisition frequency is once every 5 minutes

2.2 Modifying the power station

A brief description:

- Modify the interface of the power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/modify](http(s)://test.growatt.com/v1/plant/modify)

Request method:

- post

Parameters:

Parameter Name	Whether Required	Type	Description
c_user_id	Yes	int	User id to which the plant belongs
plant_id	Yes	int	Power Station ID
name	Yes	string	power station name
latitude_f	No	string	Area country list
latitude_d	No	string	Installer Code

Parameter Name	Whether Required	Type	Description
peak_power	No	boolean	peak power (kWp)
currency	No	boolean	currency unit
longitude	No	boolean	Longitude
latitude	No	boolean	latitude
timezone_id	No	int	Time zone code for data display: East t West time zone: -1~-12
plant_type	No	int	Power station type: 0: household power industrial and commercial power stati alleviation power station

Call example

Parameter name	Is it required	Value	Description
c_user_id	Yes	74	User ID to which the power station belo
plant_id	Yes	77	Plant ID
name	Yes	20	Power station name
latitude_f	No	Thailand	Region Country List
latitude_d	no	AFLF6	Installer code
peak_power	No	20	Peak power (kWp)
currency	No	\$	Currency unit
longitude	no	30	longitude

Parameter name	Is it required	Value	Description
latitude	no	23	latitude
timezone_id	No	8	Time zone code displayed by data: East West time zone: -1~-12
plant_type	No	0	Power station type: 0: Household power Industrial and commercial power station alleviation power station

```
{
  "c_user_id": "74",
  "plant_id": "77",
  "name": "bole66",
  "latitude_f": "Thailand",
  "latitude_d": "AFLF6",
  "peak_power": "20",
  "currency": "$",
  "longitude": "30",
  "latitude": "23",
  "timezone_id": "8",
  "plant_type": "0"
}
```

Return to Example

```
{
  "data": "",
  "error_code": 0,
  "error_msg": ""
}
```

Return parameter description

Parameter name	Type	Description
error_code	int	error code
error_msg	string	Error message pro
error_code		error_msg
0		Return normally

{

"data": "",

"error_code": 0,

"error_msg": ""

}

error_code	error_msg
10001	System error

{

"error_msg": "error_System error",

"data": "",

"error_code": 10001

}

error_code	error_msg
10002	Username ID is empty

{

"error_msg": "error_User ID is empty",

"data": "",

"error_code": 10002

}

error_code	error_msg
10003	The power station name is empty

```
{
  "error_msg": "error_Plant name is empty",
  "data": "",
  "error_code": 10003
}
```

error_code	error_msg
10004	Peak power is empty

```
{
  "error_msg": "error_Peak power is empty",
  "data": "",
  "error_code": 10004
}
```

error_code	error_msg
10005	User does not exist

```
{
  "error_msg": "error_User does not exist",
  "data": "",
  "error_code": 10005
}
```

error_code	error_msg
10006	The power station name already exists

```
{
  "error_msg": "error_Plant name already",
  "data": "",
  "error_code": 10006
}
```

```
"data": "",  
"error_code": 10006  
}
```

error_code	error_msg
10007	The power station does not exist

```
{  
"error_msg": "error_Plant does not exist",  
"data": "",  
"error_code": 10007  
}
```

Remark

- This interface is only allowed to be called 10 times a day

2.3 Delete power station

A brief description:

- Delete the interface of the power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/delete](http(s)://test.growatt.com/v1/plant/delete)

Call example

Parameter name	Is it required	Value	Descripti
plant_id	Yes	77	Plant ID

```
{  
"plant_id": "77",  
  
}
```

Return to Example

```
{
```

```
"data": "",  
"error_code": 0,  
"error_msg": ""  
}
```

Return parameter description

Parameter name	Type	Description
error_code	int	error code
error_msg	string	Error message prompt
error_code	error_msg	
0	Return normally	

```
{  
  "data": "",  
  "error_code": 0,  
  "error_msg": ""  
}
```

error_code	error_msg
10001	System error

```
{  
  "error_msg": "error_system error",  
  "data": "",  
  "error_code": 10001  
}
```

error_code	error_msg
10002	The power plant ID is empty

```
{  
  "error_msg": "error_plant ID is empty",  
  "data": "",  
  "error_code": 10002  
}
```

error_code	error_msg
10004	The power station does not exist

```
{  
  "error_msg": "error_plant does not exist",  
  "data": "",  
  "error_code": 10004  
}
```

Remark

2.4 Get a list of power plants for a user

A brief description:

- Get the interface of a user's power station list

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/user_plant_list](http(s)://test.growatt.com/v1/plant/user_plant_list)

Request method:

- post

Parameters:

Parameter Name	Whether Required	Type	Description
user_name	Yes	string	User Account
page	No	int	page number,default 1

Parameter Name	Whether Required	Type	Description
perpage	No	int	Number of pages per page max 100

Call example

Parameter name	Is it required	Value	Description
user_name	is	1236985	user account
page	No	1	Page number, default 1
perpage	No	20	Number per page, default 20 maximum 100

```
{
  "user_name": "1236985",
  "page": "1",
  "perpage": "20"
}
```

Return to Example

```
{
  "data": {
    "count": 1,
    "plants": [
      {
        "status": 4,
        "locale": "en-US",
        "total_energy": 15.699999809265137,
        "operator": "API interface testing manufacturer",
        "country": "China",
```

```
        "city": "Shenzhen",
        "current_power": "",
        "create_date": "2018-12-12",
        "image_url": "2.png",
        "plant_id": 24765,
        "name": "API interface test power station",
        "installer": "API interface testing manufacturer",
        "user_id": 33,
        "longitude": "113.9",
        "latitude": "22.6",
        "peak_power": 20,
        "latitude_d": null,
        "latitude_f": null
    },
]
},
"error_code": 0,
"error_msg": ""
}
```

Return parameter description

Parameter name	Type	Description
plant_id	int	Plant ID
name	string	Power station name
user_id	int	User ID to which the power station belongs
country	string	country name

Parameter name	Type	Description
longitude	string	longitude
latitude	string	latitude
peak_power	string	Peak power (kWp)
create_date	string	Website creation date
installer	string	Installer name
current_power	string	Current power (kW)
total_energy	string	Cumulative power gener
count	int	Total number of power st
error_code	int	error code
error_msg	string	Error message prompt
error_code		error_msg
0		Return normally

```
{
  "data": {
    "count": 1,
    "plants": [
      {
        "status": 4,
        "locale": "en-US",
        "total_energy": 15.699999809265137,
        "operator": "API Interface Test Vendor",
        "country": "China",
```

```
"city": "Shenzhen",
"current_power": "",
"create_date": "2018-12-12",
"image_url": "2.png",
"plant_id": 24765,
"name": "API interface test station",
"installer": "API Interface Test Vendor",
"user_id": 33,
"longitude": "113.9",
"latitude": "22.6",
"peak_power": 20,
"latitude_d": null,
"latitude_f": null
},
]
},
"error_code": 0,
"error_msg": ""
}
```

error_code	error_msg
10001	System error

```
{
  "data": "",
  "error_code": 10001,
  "error_msg": "error_system error"
}
```

Remark

- The acquisition frequency is once every 5 minutes
- This interface is only allowed to be called 10 times a day

2.5 Get a list of all user power stations

A brief description:

- Get the interface to all user power station lists

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/list](http(s)://test.growatt.com/v1/plant/list)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Description
page	No	int	page number,default 1
perpage	No	int	Number of pages per p max 100
search_type	No	string	search type
search_keyword	No	string	search keywords

Call example

Parameter name	Is it required	Value	Description
page	No	1	Page number, default
perpage	No	100	Number per page, de maximum 100
search_type	No		Search type
search_keyword	No	test	Search keyword

```
{
```

```
"page": "1",
```

```
"perpage": "100",  
"search_type": "",  
"search_keyword": "test"  
}
```

Return to Example

```
{  
  "data": {  
    "count": 1,  
    "plants": [  
      {  
        "status": 1,  
        "locale": "en-US",  
        "total_energy": 0,  
        "operator": "0",  
        "country": "China",  
        "city": "0",  
        "current_power": "",  
        "create_date": "2016-09-15",  
        "image_url": null,  
        "plant_id": 1185,  
        "name": "9",  
        "installer": "0",  
        "user_id": 31,  
        "longitude": "",  
        "latitude": "",  
        "peak_power": 0,  
        "latitude_d": null,  
        "latitude_f": null
```

```
    }  
  ]  
  },  
  "error_code": 0,  
  "error_msg": ""  
}
```

Return parameter description

Parameter name	Type	Description
plant_id	int	Plant ID
name	string	Power station name
user_id	int	User ID to which the power station belongs
country	string	country name
longitude	string	longitude
latitude	string	latitude
peak_power	string	Peak power (kWp)
create_date	string	Website creation date
installer	string	Installer name
current_power	string	Current power (W)
total_energy	string	Cumulative power generated
count	int	Total number of power stations
latitude_d	string	Agent name

Parameter name	Type	Description
latitude_f	string	Agency area
error_code	int	error code
error_msg	string	Error message prompt
error_code		error_msg
0		Return normally

{

```
"data": {
  "count": 1,
  "plants": [
    {
      "status": 1,
      "locale": "en-US",
      "total_energy": 0,
      "operator": "0",
      "country": "China",
      "city": "0",
      "current_power": "",
      "create_date": "2016-09-15",
      "image_url": null,
      "plant_id": 1185,
      "name": "9",
      "installer": "0",
      "user_id": 31,
      "longitude": "",
      "latitude": "",
```

```

        "peak_power": 0,
        "latitude_d": null,
        "latitude_f": null
    }
]
},
"error_code": 0,
"error_msg": ""
}

```

error_code	error_msg
10001	System error

```

{
  "data": "",
  "error_code": 10001,
  "error_msg": "error_system error"
}

```

Remark

- The acquisition frequency is once every 5 minutes
- This interface is only allowed to be called 10 times a day

2.6 Get basic information about a power station

A brief description:

- Interface to obtain basic information about a power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/details](http(s)://test.growatt.com/v1/plant/details)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Descript
plant_id	Yes	int	Power S

Back to example

```
{
  "data": {
    "address1": "",
    "jurisdictionorganization": "",
    "address2": "",
    "installed_dc_capacity": "",
    "city": "Shenzhen",
    "timezone": "GMT+8",
    "designerorganization": "",
    "installercontact": "",
    "create_date": "2018-12-12",
    "image_url": "2.png",
    "description": "",
    "longitude": "113.9",
    "fixed_azimuth": "",
    "oftakercontact": "",
    "status": "",
    "postal": "",
    "weathersensor_num": "",
    "weathersensor_man": "",
    "operatorcontact": "",
    "country": "China",
    "plant_type": "",
    "fixed_tilt": "",
```

```
"inverters": [  
  {  
    "inverter_md": "",  
    "inverter_num": 1,  
    "inverter_man": "Growatt"  
  }  
,  
  "installerorganization": "",  
  "jurisdictioncontact": "",  
  "installed_ac_capacity": "",  
  "latitude": "22.6",  
  "financiercontact": "",  
  "ownerorganization": "rmb",  
  "locale": "en_US",  
  "designercontact": "",  
  "state": "",  
  "weather_type": "",  
  "currency": "rmb",  
  "installed_panel_area": "",  
  "name": "API interface test power station",  
  "user_id": 33,  
  "grid_type": "",  
  "operatororganization": "",  
  "elevation": "",  
  "irradiationsensor_type": "",  
  "ownercontact": "rmb",  
  "weathersensor_md": "",  
  "tracker_type": "",
```

```

"ofttakerorganization": "",
"dataloggers": [
  {
    "datalogger_num": 1,
    "datalogger_man": "Growatt",
    "datalogger_md": ""
  }
],
"financierorganization": "",
"peak_power": 20,
"notes": "",
"arrays": [
  {
    "num_modules": 0,
    "module_md": "",
    "module_man": "Growatt"
  }
]
},
"error_code": 0,
"error_msg": ""
}

```

Return parameter description

Parameter Name	Type	Description
name	string	power station name
user_id	int	User ID to which the plant belongs

Parameter Name	Type	Description
country	string	country name
longitude	string	Longitude
latitude	string	Latitude
create_date	string	Building date
image_url	string	Picture url
peak_power	string	peak power (kWp)
currency	string	currency unit
timezone	string	Time Zone
plant_type	int	Plant type(0-Residential Plant,1-Commercial Plant,2-Rooftop Mounted Plants)
address1	string	Plant address
error_code	int	0: Normal return, 10001: System error, 10002: Power station ID does not exist, 10003: Power station ID is empty, 10004: Power station does not exist
error_msg	string	Error message prompt

Remarks

- Get the frequency once every 5 minute

2.7 Get an overview of a plant data

A brief description:

- Interface to get an overview of a plant data

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/data](http(s)://test.growatt.com/v1/plant/data)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Description
plant_id	Yes	int	Power S

Back to example

```
{
  "data": {
    "peak_power_actual": 20,
    "monthly_energy": "15.7",
    "last_update_time": "2018-12-13 11:06:34",
    "current_power": 0,
    "timezone": "GMT+8",
    "yearly_energy": "15.7",
    "today_energy": "0",
    "carbon_offset": "9.4",
    "efficiency": "",
    "total_energy": "15.7"
  },
  "error_code": 0,
  "error_msg": ""
}
```

Return parameter description

Parameter Name	Type	Description
peak_power_actual	string	Actual Peak Power (kW)
last_update_time	string	Last received data

Parameter Name	Type	Description
current_power	string	current power (kW)
today_energy	string	Power Generation (kWh)
monthly_energy	string	Power Generation in the Month (kWh)
yearly_energy	string	Power generation in the current year (kWh)
total_energy	string	Cumulative power generation (kWh)
carbon_offset	int	Equivalent reduction of CO2 emissions
timezone	string	Time Zone
error_code	string	0: Normal return, 10001: System error, 10002: Power station does not exist, 10003: Power station is closed
error_msg	string	Error Message Prompt

Remarks

- Get the frequency once every 5 minutes

2.8 Historical power generation of the power station

A brief description:

- Obtain an interface for historical power generation of a power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/energy](http(s)://test.growatt.com/v1/plant/energy)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Description
plant_id	Yes	int	Power Station ID

Parameter Name	Whether Required	Type	Description
start_date	Yes	string	Start Date
end_date	Yes	string	End Date(date interval 7 days)
time_unit	Yes	string	time type:"day" or "m"
page	No	int	page number,default
perpage	No	int	Number of pages per max 100

Back to example

```
{
  "data": {
    "count": 6,
    "time_unit": "day",
    "energys": [
      {
        "date": "2018-12-12",
        "energy": "0"
      },
      {
        "date": "2018-12-13",
        "energy": "7.6"
      },
      {
        "date": "2018-12-14",
        "energy": "0"
      }
    ]
  }
}
```

```
{
  "date": "2018-12-15",
  "energy": "0"
},
{
  "date": "2018-12-16",
  "energy": "0"
},
{
  "date": "2018-12-17",
  "energy": "0"
}
]
},
"error_code": 0,
"error_msg": ""
}
```

Return parameter description

Parameter Name	Type	Description
count	int	Total Records
time_unit	string	time_unit on request
date	string	date
energy	string	Power Generation (kWh)
error_code	int	0: Normal return, 10001: System error, 10002: Power station ID does not exist, 10003: Power station ID is empty, 10004: Power station ID incorrect

Parameter Name	Type	Description
error_msg	string	Error Message Prompt

Remarks

- Get the frequency once every 5 minutes
- This interface is only allowed to call 10 times a day

2.9 Obtain power data of a certain power station

A brief description:

- Obtain an interface for power data of a certain power station

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/power](http(s)://test.growatt.com/v1/plant/power)

Request method:

- get

Parameters:

Parameter Name	Whether Required	Type	Description
plant_id	yes	int	Power Station ID
date	yes	string	date

Back to example

```
{
  "data": {
    "powers": [
      {
        "time": "2018-12-13 10:45",
        "power": 7903.39990234375
      },
      {
        "time": "2018-12-13 10:40",
```

```
        "power": 7689.7001953125
    }
],
    "count": 2
},
    "error_code": 0,
    "error_msg": ""
}
```

Return parameter description

Parameter Name	Type	Description
count	int	Total Records
time	string	Time
power	string	Power (W)
error_code	int	0: Normal return, 10001: System error, 10002: Power station ID does not exist, 10003: Power station ID is empty or time is incorrect
error_msg	string	Error Message Prompt

Remarks

- Get the frequency once every 5 minutes

2.10 Get the plant information of a device

A brief description:

- Obtain an interface for the plant information of a device

Request URL:

- [http\(s\)://test.growatt.com/v1/plant/sn_plant](http(s)://test.growatt.com/v1/plant/sn_plant)

Request method:

- post

Parameters:

Parameter Name	Whether Required	Type	Description
device_sn	Yes	string	Device serial number (serial number)

Back to example

```
{
  "data": {
    "plant": {
      "status": 4,
      "locale": "",
      "total_energy": 15.6999999809265137,
      "operator": "API interface test vendor",
      "country": "China",
      "city": "Shenzhen",
      "current_power": "",
      "create_date": "2018-12-12",
      "image_url": "2.png",
      "plant_id": 24765,
      "name": "API interface test power station",
      "longitude": "113.9",
      "user_id": 33,
      "installer": "API interface test vendor",
      "latitude": "22.6",
      "peak_power": 20,
      "latitude_d": null,
      "latitude_f": null
    }
  }
}
```



```
},  
"error_code": 0,  
"error_msg": ""  
}
```

Return parameter description

Parameter Name	Type	Description
plant_id	int	Power Station ID
name	string	Power Station Name
user_id	int	User ID to which the plant belongs
country	string	country name
longitude	string	Longitude
latitude	string	Latitude
peak_power	string	peak power (kWp)
create_date	string	Building Date
installer	string	installer name
total_energy	string	Cumulative power generation (kWh)
count	int	Total power stations
latitude_d	string	Agent Name
latitude_f	string	Agent Area
error_code	int	0: Normal return, 10001: System error, 10002: Account does not exist, 10003: Device serial number is empty, 10004: Device name is empty, 10005: Device does not exist

Parameter Name	Type	Description
error_msg	string	Error Message Prompt

Remarks

- Get the frequency once every 5 minutes