



---

# SolisCloud Monitoring API

V1.0.8

Write:	<b>hualei</b>	Date:	<b>2020-9-14</b>
Check:		Date:	
Approve:		Date:	

---

All rights reserved



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 2 / 41	Eff Date: 2019年08月01日

## Revision History

Versio	Content	Eidtor	Date
V1.0.0	Initial	Hualei	20190726
V1.0.1	Add new plant	Hualei	20190730
V1.0.2	Add new device	Hualei	20190815
V1.0.3	Add inverter graph	Hualei	20190822
V1.0.4	Add plant modification	Hualei	20191017
V1.0.5	Added modify sub-account and query user	Hualei	20191022
V1.0.5	Added new power station binding	Hualei	20200914
V1.0.6	Add alarm checking interface	Hualei	20201014
V1.0.7	Add inverter control interface	Hualei	20210105
V1.0.8	Add plant and inverter batch interface	Hualei	20210318



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 3 / 41	Eff Date: 2019年08月01日

## Content

<b>1. INTRODUCTION</b>	<b>5</b>
1.1. PORT ACCESS METHOD	5
1.2. REQUEST URL	5
1.3. PUBLIC HTTP HEADER DEFINITION	5
1.4. RETURN DATA	6
<b>2. USER SIGNATURE AUTHENTICATION</b>	<b>7</b>
2.1. AUTHORIZATION FIELD CALCULATION METHOD	7
2.2. AUTHORIZATION FIELD CALCULATION EXAMPLE	7
2.3. ADD USER PASSWORD ENCRYPTION	9
<b>3. API INTERFACE</b>	<b>11</b>
3.1. /v1/API/USERSTATIONLIST POWER STATION LIST	11
3.2. /v1/API/STATIONDETAIL POWER STATION DETAILS	12
3.3. /v1/API/COLLECTORLIST DATALOGGER LIST	15
3.4. /v1/API/COLLECTORDETAIL DATALOGGER DETAILS	16
3.5. /v1/API/INVETERLIST INVERTER LIST	17
3.6. /v1/API/INVETERDETAIL INVERTER DETAILS	18
3.7. /v1/API/ADDUSER NEW USER (CREATE IF NOT EXISTS; IF EXISTS, RETURN USERID)	23
3.8. /v1/API/ADDSTATION NEW PLANT	23
3.9. /v1/API/STATIONDAY PLANT DAILY GRAPH	24
3.10. /v1/API/STATIONMONTH PLANT MONTHLY GRAPH	24
3.11. /v1/API/STATIONYEAR PLANT YEARLY GRAPH	25
3.12. /v1/API/STATIONALL PLANT CUMULATIVE GRAPH	26
3.13. /v1/API/ADDDEVICE ADD DEVICE	26
3.14. /v1/API/INVERTERDAY INVERTER DAILY GRAPH	26
3.15. /v1/API/INVERTERMONTH INVERTER MONTHLY GRAPH	27
3.16. /v1/API/INVERTERYEAR INVERTER YEARLY GRAPH	28
3.17. /v1/API/INVERTERALL INVERTER CUMULATIVE GRAPH	29
3.18. /v1/API/STATIONUPDATE PLANT MODIFICATION	29
3.19. /v1/API/UPDATEINSTALLER PLANT SUB-ACCOUNT MODIFICATION	30
3.20. /v1/API/USERLIST USER LIST	30
3.21. /v1/API/ADDSTATIONBINDCOLLECTOR NEW PLANT TO BIND COLLECTOR	31
3.22. /v1/API/DELLECTOR PLANT UNBIND DATALOGGER	32
3.23. /v1/API/ALARMLIST ALARM INFO CHECK	32
3.24. /v1/API/STATIONDETAILLIST BATCH ACQUIRE PLANT DETAILS	33
3.25. /v1/API/INVERTERDETAILLIST BATCH ACQUIRE INVERTER DETAILS	36
3.26. /v1/API/STATIONDAYENERGYLIST BATCH ACQUIRE PLANT DAY GENERATION	40



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 4 / 41	Eff Date: 2019年08月01日

- 3.27. /v1/API/STATIONMONTHENERGYLIST BATCH ACQUIRE PLANT MONTH GENERATION.....41
- 3.28. /v1/API/STATIONYEARENERGYLIST B BATCH ACQUIRE PLANT YEAR GENERATION.....42



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 5 / 41	Eff Date: 2019年08月01日

## 1. INTRODUCTION

This document describes the third party using Soliscloud interface definition. A third party can use the provided ports to get corresponding information of the PV plants.

### 1.1. Port Access Method

All interfaces involved in this document use HTTP POST, and message transmission is in JSON format. Different capabilities support different access protocols and message formats. When external systems access the SolisCloud platform, they need to select the corresponding access protocol and message format.

### 1.2. Request url

Please contact Solis tech support

### 1.3. Public HTTP Header Definition

#### 1.3.1. Public Request Header

Some public request headers are used in the interface. These request headers can be used by all requests and are defined in detail as follows

Name	Type	Default	Note
Authorization	String	-	Authentication information used to verify the validity of the request.
Content-MD5	String	-	Represents the MD5 value of the requested content data, calculates the MD5 value of the message content (excluding the header) to obtain a 128-bit number, and then base64 encodes the number.
Content-Type	String	application/json;charset=UTF-8	HTTP request content type. Only support application/json
Date	String	-	The GMT time specified in the HTTP 1.1 protocol, for example: Wed, 05 Sep. 2019 23:00:00 GMT

#### 1.3.2. Public Response Header

Some public response headers are used in the interface. These response headers can be used by all requests and are defined in detail as follows

Name	Type	Default	Note
Content-Type	String	application/json	HTTP request content type. Only support application/json
Content-Type	String		HTTP request content type.。
Date	String	-	The GMT time specified in the HTTP 1.1 protocol, for example: Wed, 05 Sep. 2019 23:00:00 GMT



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 6 / 41	Eff Date: 2019年08月01日

## 1.4. Return Data

If the code in the return parameter is 0, the call is successful. If the call is successful, the result content of the business side is returned in the data.

Return parameter format:

```
{
  "success": true,
  "code": "0",
  "msg": "Successful",
  "data": { },
}
```

Name	Type	Length	Note	Description
success	Boolean		Success	
code	String		Response code	0 is success
msg	String		Description	code 0 is success, Others are error messages
data	Group		Return Data	See the API interface for details



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API	Classification: Secret		
File No: XX-XXX-XXX	Ver: V1.0	Page: 7 / 41	Eff Date: 2019年08月01日

## 2. USER SIGNATURE AUTHENTICATION

### 2.1. Authorization Field calculation method

```
Authorization = "API " + KeyId + ":" + Sign
  Sign = base64(HmacSHA1(KeySecret,
    VERB + "\n"
    + Content-MD5 + "\n"
    + Content-Type + "\n"
    + Date + "\n"
    + CanonicalizedResource))
```

**KeyID** Visitor ID. (Contact technical support to obtain)

**KeySecret** It means that the key required for signature must be kept strictly confidential to prevent leakage. (Contact technical support to obtain)

**VERB** Represents the method of the HTTP request, this protocol is POST.

**\n** Represents a line break

**Content-MD5** Represents the MD5 value of the requested content data, calculates the MD5 value of the message content (excluding the header) to obtain a 128-bit number, and then base64 encodes the number. When the message content is empty, the string is empty.

**Content-Type** Indicates the type of request content, here is "application/json"

**Date** Indicates the time of this operation, and must be in GMT format, such as "Wed, 10 Jul 2019 13:16:22 GMT"

**CanonicalizedResource** Indicates the API interface you want to access, such as "/v1/api/userStationList"

**sign** Represents digital signature, HmacSHA1 key encryption and base64 encoding

### 2.2. Authorization Field calculation example

If the KeyId is: 2424 and the KeySecret is: 6680182547, the following method can be used to calculate the signature sign

#### 2.2.1. Request:

```
POST /v1/api/userStationList
Content-MD5: mBACWORUK93FBOz6jsAuqw==
Content-Type: application/json
Date: Fri, 26 Jul 2019 06:00:46 GMT
Authorization: API 2424: ForAqMkym0v7R94RSU0rRqpEkf0=
Body: { "userId": "1145611319416590338" }
```

Note: There is no "Body:" in the post content sent

#### 2.2.2. Date Time

Date time is the GMT time specified in the HTTP 1.1 protocol, you can refer to the following JAVA code to obtain:



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 8 / 41	Eff Date: 2019年08月01日

```
/**
 * Description: 获取 GMTTime
 * @return 将当前 Time 转换为 GMT 时区后的 String
 */
public static String getGMTTime(){

    Calendar cd = Calendar.getInstance();
    SimpleDateFormat sdf = new SimpleDateFormat("EEE, d MMM yyyy HH:mm:ss
'GMT'", Locale.US);
    sdf.setTimeZone(TimeZone.getTimeZone("GMT")); // 设置时区为 GMT
    String str = sdf.format(cd.getTime());
    return str;
}
```

### 2.2.3. Content-MD5 Encryption

The JAVA sample code for Content-MD5 encryption of Post content is as follows:

```
/**
 * 1. 先计算 MD5 加密的二进制数组（128 位）。
 * 2. 再对这个二进制进行 base64 编码（而不是对 32 位字符串编码）
 * @param plainText 加密明文
 * @return 加密密文
 */
public static String getDigest(String test) {
    String result = "";
    try {
        MessageDigest md = MessageDigest.getInstance("MD5");
        md.update(test.getBytes());
        byte[] b = md.digest();
        result = Base64.encodeBytes(b);
    } catch (NoSuchAlgorithmException e) {
        e.printStackTrace();
    }
    return result;
}
```

The calculation result of Content-MD5 of "{"userId":"1145611319416590338"}" in the example is: mBAcWORUK93FBOz6jsAuqw==

### 2.2.4. The signature string is:

```
" POST\nmBAcWORUK93FBOz6jsAuqw==\napplication/json\nFri, 26 Jul 2019
06:00:46 GMT\n/v1/api/userStationList"
```





# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 9 / 41	Eff Date: 2019年08月01日

The JAVA sample code for signature sign is as follows:

```
public static String HmacSHA1Encrypt(String encryptText, String
keySecret) throws Exception
{
    byte[] data= keySecret.getBytes("UTF-8");
    //根据给定的字节数组构造一个密钥,第二参数指定一个密钥算法的 Name
    SecretKey secretKey = new SecretKeySpec(data, "HmacSHA1");
    //生成一个指定 Mac 算法 的 Mac 对象
    Mac mac = Mac.getInstance("HmacSHA1");
    //用给定密钥初始化 Mac 对象
    mac.init(secretKey);
    byte[] text = encryptText.getBytes("UTF-8");
    //完成 Mac 操作
    byte[] result = mac.doFinal(text);
    return Base64.encodeBase64String(result);
}
```

The signature (Sign) calculation result should be /2Np3q5h846q9cWEFUNtBL+G7H8=,

### 2.2.5. Authorization Calculation

Because Authorization = "API "+ KeyId + ":" + Signa, the final Authorization is "API 2424:/2Np3q5h846q9cWEFUNtBL+G7H8=",

Then add the Authorization header to form the final message that needs to be sent:

```
POST /v1/api/userStationList
Content-MD5: mBACWORUK93FBOz6jsAugw==
Content-Type: application/json
Date: Fri, 26 Jul 2019 06:00:46 GMT
Authorization: API 2424:/2Np3q5h846q9cWEFUNtBL+G7H8=
{"userId":"1145611319416590338"}
```

### 2.3. Add user password encryption

MD5 encryption for password, JAVA code example:

```
public static String md5(String sourceStr) {
    String result = "";
    try {
        MessageDigest md = MessageDigest.getInstance("MD5");
        md.update(sourceStr.getBytes());
        byte[] b = md.digest();
        int i;
        StringBuffer buf = new StringBuffer("");
        for (int offset = 0; offset < b.length; offset++) {
            i = b[offset];
            if (i < 0) {
```



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 10 / 41	Eff Date: 2019年08月01日

```
        i += 256;
    }
    if (i < 16) {
        buf.append("0");
    }
    buf.append(Integer.toHexString(i));
}
result = buf.toString();
} catch (Exception e) {
    System.out.println(e);
}
return result;
}
```



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 11 / 41	Eff Date: 2019年08月01日

## 3. API INTERFACE

### 3.1. /v1/api/userStationList Power Station List

#### 3.1.1. Input parameters

Name	Type	Description	Note
pageNo	Int	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Int	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
userId	Long	User id	If send the value, check the user's plant, if not send, check all plants

#### 3.1.2. Output Parameters

Name	Type	Description	Note
page	-	Result list	
stationStatusVo	-	Number of results	
total	Long	Total list	
records	List<>	List	
all	Int	Total number of power stations	
normal	Int	Number of normal power stations	
offline	Int	Number of offline stations	
fault	Int	Number of failed power stations	
id	Long	Power station id	
stationName	String	Power station name	
addr	String	Power station address	
userId	Long	Owner Id	
userName	String	Owner's name	
mobile	String	phone number	
capacity	String	Installed capacity	
capacityStr	String	Installed capacity unit	
dayEnergy		Today Generation	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 12 / 41	Eff Date: 2019年08月01日

dayEnergyStr		Today Generation unit	
allEnergy		Total Generation	
allEnergyStr		Total Generation Unit	
fullHour		Peak Hours	
picName		Picture	
power		Power	
powerStr		Power Unit	
latitude	String	latitude	
longitude	String	longitude	
installerId		Main account id	
installer		Main account	
state		Power station status	1: Online 2: Offline 3: Alarm
dataTimestamp	Long	Power station update time	Timestamp

## 3.2. /v1/api/stationDetail Power Station Details

### 3.2.1. Input parameters

Name	Type	Description	Note
id	Long	Power Station id	

### 3.2.2. Output Parameters

Name	Type	Description	Note
id	Long	Power Station id	
stationName	String	Power Station Name	
addr	String	Power Station Address	
userId	Long	Owner ID	
userName	String	Owner Name	
mobile	String	Phone Number	
capacity	String	Installed Capacity	
capacityStr	String	Installed Capacity Unit	
dayEnergy		Today Generation	
dayEnergyStr		Today Generation Unit	
monthEnergy		Month Generation	
monthEnergyStr		Month Generation Unit	
yearEnergy		Year Generation	
yearEnergyStr		Year Generation Unit	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 13 / 41	Eff Date: 2019年08月01日

allEnergy		Total Generation	
allEnergyStr		Total Generation Unit	
dayInCome		Today Revenue	
dayInComeUnit		Today Revenue Unit	
monthInCome		Month Revenue	
monthInComeUnit		Month Revenue Unit	
yearInCome		Year Revenue	
yearInComeUnit		Year Revenue Unit	
allInCome		Total Revenue	
allInComeUnit		Total Revenue Unit	
fullHour		Peak Hours	
picName		Pictures	
power		Power	
powerStr		Power Unit	
latitude	String	latitude	
longitude	String	longitude	
dip		Tilt Angle	
azimuth		Azimuth Angle	
price		Revenue per kilowatt hour	
installerId		Main account id	
installer		Main account	
state		Power station status	1: Online 2: Offline 3: Alarm
dataTimestamp		Power station update time	Timestamp
money		Currency	
brand		Brand	
countryStr		Country	
regionStr		Area	
cityStr		City	
condTxtN		Night Weather	
condTxtD		Daytime Weather	
tmpMax		Max Temperature	
tmpMin		Lowest Temperature	
tmpUnit		Temperature Unit	
powerStationNumTree		Tree	
powerStationNumTreeUnit		Tree Unit	
powerStationAvoidedCo2		CO2 reduction	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 14 / 41	Eff Date: 2019年08月01日

powerStationAvoidedCo2Unit		CO2 reduction unit	
module	Long	Module Number	
mobile	Long	Plant Contact	
installerEmail	String	Installer Email	
installerMobile	Long	Installer Mobile	
batteryPower		Battery Power	
batteryPowerStr		Battery Power unit	
batteryPowerPec		Battery Power percentage	
batteryDischargeEnergy		Battery discharg energy	
batteryDischargeEnergyStr		Battery discharg energy unit	
batteryChargeEnergy		Battery charge energy	
batteryChargeEnergyStr		Battery charge energy unit	
batteryPercent		Battery SOC	
psum		Meter power	
psumStr		Meter power unit	
psumPec		Meter powerPercentage	
gridPurchasedDayEnergy		Meter today purchase energy	
gridPurchasedDayEnergyStr		Meter today purchase energy unit	
gridPurchasedMonthEnergy		Meter this month purchase energy	
gridPurchasedMonthEnergyStr		Meter this month purchase energy unit	
gridPurchasedYearEnergy		Meter this year purchase energy	
gridPurchasedYearEnergyStr		Meter this year purchase energy unit	
gridPurchasedTotalEnergy		Meter total purchase energy	
gridPurchasedTotalEnergyStr		Meter total purchase energy unit	
gridSellDayEnergy		Meter today sell energy	
gridSellDayEnergyStr		Meter today sell energy unit	
gridSellMonthEnergy		Meter this month sell	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 15 / 41	Eff Date: 2019年08月01日

		energy	
gridSellMonthEnergyStr		Meter this month sell energy unit	
gridSellYearEnergy		Meter this year sell energy	
gridSellYearEnergyStr		Meter this year sell energy unit	
gridSellTotalEnergy		Meter total sell energy	
gridSellTotalEnergyStr		Meter total sell energy unit	
familyLoadPower		Load power	
familyLoadPowerStr		Load power unit	
familyLoadPowerPec		Load powerPercentage	
homeLoadEnergy		Today load energy	
homeLoadEnergyStr		Today load energy unit	

### 3.3. /v1/api/collectorList Datalogger List

#### 3.3.1. Input parameters

Name	Type	Description	Note
pageNo	String	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	String	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
stationId	Long	Plant id	Without: Check all under the installer. With: Check the indicated plant

#### 3.3.2. Output Parameter

Name	Type	Description	Note
page	-	Result list	
collectionStatusVo	-	Number of results	
total	Long	Total list	
records	List<>	List	
all	Int	Total Number	
normal	Int	Normal number	
offline	Int	Offline number	
fault	Int	Number of failures	
id	Long	Collector id	
stationName	String	Plant name	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 16 / 41	Eff Date: 2019年08月01日

stationId	Long	Power Station Id	
userId	Long	Owner Id	
sn	String	Collector SN	
model	String	Model	GPRS,WiFi
name	String	Collector name	
rssiLevel	String	Collector signal strength	
runingTime		Cumulative working time	
gprsBeginTime		Data Package start time	
gprsEndTime		Data Package end time	
state		Collector status	1: Online 2: Offline 3: Alarm
dataTimestamp		Collector update time	Timestamp

### 3.4. /v1/api/collectorDetail Datalogger Details

#### 3.4.1. Input parameters

Name	Type	Description	Note
id	Long	Collector id	id and sn must send one
sn	String	Collector sn	id and sn must send one

#### 3.4.2. Output Parameter

Name	Type	Description	Note
id	Long	Collector id	
stationId	Long	Power Station Id	
stationName	String	Plant name	
addr	String	Plant address	
userId	Long	Owner Id	
state		Power station status	1: Online 2: Offline 3: Alarm
dataTimestamp		Power station update time	Timestamp
totalWorkingTime		Cumulative working time	
sn	String	Collector SN	
model	String	model	GPRS,WiFi
name	String	Collector name	
rssiLevel	String	Collector signal strength	
lac	String	Positioning lac	





# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 17 / 41	Eff Date: 2019年08月01日

lanIp		LAN ip	
mac		Mac address	
maximumNumber		Maximum number of connected units	
actualNumber		Actual number of connected units	
connectedSsid		Connected ssid	
connectionOperator		Operator	
currentWorkingTime		Working time of this power-on	
totalWorkingTime		Cumulative working time	
dataUploadCycle		Data upload interval	
factoryTime		Factory time	
gprsEndTime		Package end time	

## 3.5. /v1/api/inverterList Inverter List

### 3.5.1. Input parameters

Name	Type	Description	Note
pageNo	String	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	String	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
stationId	Long	Power station id	Without: Check all under the installer. With: Check the indicated plant

### 3.5.2. Output Parameters

Name	Type	Description	Note
page	-	Result list	
inverterStatusVo	-	Number of results	
total	Long	Total list	
records	List<>	List	
all	Int	Total number of power stations	
normal	Int	Number of normal power stations	
offline	Int	Number of offline stations	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 18 / 41	Eff Date: 2019年08月01日

fault	Int	Number of failed power stations	
id	Long	Inverter id	
sn	String	Inverter SN	
stationId	Long	Power station id	
stationName	String	Plant name	
userId	Long	Owner Id	
power	String	Installed capacity	
powerStr	String	Installed capacity unit	
etoday		Energy of the day	
etodayStr		Energy unit of the day	
etotal		Total energy	
etotalStr		Total energy unit	
fullHour		Peak Hours	
picName		image	
pac		power	
pacStr		Power unit	
state		Power station status	1: Online 2: Offline 3: Alarm
dataTimestamp		Power station update time	Timestamp

## 3.6. /v1/api/inverterDetail Inverter Details

### 3.6.1. Input parameters

Name	Type	Description	Note
id	Long	Inverter id	d and sn must send one
sn	String	Inverter sn	id and sn must send one

### 3.6.2. Output Parameters

Name	Type	Description	Note
id	Long	Inverter id	
sn	String	Inverter SN	
stationId	Long	Power station id	
stationName	String	Plant name	
userId	Long	Owner Id	
collectorId	Long	Collector id	
collectorName	String	Collector name	
collectorsn	String	Collector SN	
currentState		Current state	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 19 / 41	Eff Date: 2019年08月01日

eToday		Energy of the day	
eTodayStr		Energy unit of the day	
eMonth		Energy of the month	
eMonthStr		Energy unit of the month	
eYear		Energy of the year	
eYearStr		Energy unit of the year	
eTotal		Total energy	
eTotalStr		Total energy unit	
fac		Grid frequency	
facStr		Grid frequency unit	
pac		Real-time power	
pacStr		Real-time power unit	
pacPec		Power percentage	
fullHour		Peak hours	
picName		image	
power		Installed capacity	
powerStr		Installed capacity unit	
iAc1		AC current R	
iAc2		AC current S	
iAc3		AC current T	
uAc1		AC voltage R	
uAc2		AC voltage S	
uAc3		AC voltage T	
iPv1		DC current 1	
iPv2		DC current 2	
iPv3		DC current 3	
iPv4		DC current 4	
uPv1		DC voltage 1	
uPv2		DC voltage 2	
uPv3		DC voltage 3	
uPv4		DC voltage 4	
state		Power station status	1: Online 2: Offline 3: Alarm
dataTimestamp		Power station update time	Timestamp



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 20 / 41	Eff Date: 2019年08月01日

inverterTemperature		Inverter temperature	
nationalStandardstr		National standard	
acOutputType		AC output type	0: 1 phase Rest are 3 phase
dcInputtype		Dc input type	Num+1
powerFactor		Power factor	
batteryPower		Battery power	
batteryPowerStr		Battery power unit	
batteryPowerPec		Battery powerPercentage	
batteryCapacitySoc		Battery SOC	
batteryHealthSoh		Battery SOH	
socDischargeSet		Overdischarge SOC	
socChargingSet		Forcecharge SOC	
batteryType		Current operating battery model	
batteryVoltage		Battery voltage	
batteryVoltageStr		Battery voltage unit	
bstteryCurrent		Battery current	
bstteryCurrentStr		Battery current unit	
batteryPower		Battery power	
batteryPowerStr		Battery power unit	
batteryPowerPec		Battery powerPercentage	
batteryFailureInformation01		Battery alarm01	
batteryFailureInformation02		Battery alarm02	
batteryTodayChargeEnergy		Today battery charge energy	
batteryTodayChargeEnergyStr		Today battery charge energy unit	
batteryMonthChargeEnergy		This month battery charge energy	
batteryMonthChargeEnergyStr		This month battery charge energy unit	
batteryYearChargeEnergy		This year battery charge energy	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 21 / 41	Eff Date: 2019年08月01日

batteryYearChargeEnergyStr		This year battery charge energy unit	
batteryTotalChargeEnergy		Total battery charge energy	
batteryTotalChargeEnergyStr		Total battery charge energy unit	
batteryTodayDischargeEnergy		Today battery discharge energy	
batteryTodayDischargeEnergyStr		Today battery discharge energy unit	
batteryMonthDischargeEnergy		This month battery discharge energy	
batteryMonthDischargeEnergyStr		This month battery discharge energy unit	
batteryYearDischargeEnergy		This year battery discharge energy	
batteryYearDischargeEnergyStr		This year battery discharge energy unit	
batteryTotalDischargeEnergy		Total battery discharge energy	
batteryTotalDischargeEnergyStr		Total battery discharge energy unit	
gridPurchasedTodayEnergy		Today meter purchase energy	
gridPurchasedTodayEnergyStr		Today meter purchase energy unit	
gridPurchasedMonthEnergy		This month meter purchase energy	
gridPurchasedMonthEnergyStr		This month meter purchase energy unit	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 22 / 41	Eff Date: 2019年08月01日

onthEnergyStr		purchase energy unit	
gridPurchasedYearEnergy		This year meter purchase energy	
gridPurchasedYearEnergyStr		This year meter purchase energy unit	
gridPurchasedTotalEnergy		Total meter purchase energy	
gridPurchasedTotalEnergyStr		Total meter purchase energy unit	
gridSellTodayEnergy		Today meter sell energy	
gridSellTodayEnergyStr		Today meter sell energy unit	
gridSellMonthEnergy		This month meter sell energy	
gridSellMonthEnergyStr		This month meter sell energy unit	
gridSellYearEnergy		This year meter sell energy	
gridSellYearEnergyStr		This year meter sell energy unit	
gridSellTotalEnergy		Total meter sell energy	
gridSellTotalEnergyStr		Total meter sell energy unit	
familyLoadPower		HouseLoad power	
familyLoadPowerStr		HouseLoad power unit	
bypassLoadPower		BackupLoad power	
bypassLoadPowerStr		BackupLoad power unit	
pSum		Grid total active power	
pSumStr		Grid total active power unit	
psumPec		Grid total active powerPercentage	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 23 / 41	Eff Date: 2019年08月01日

homeLoadTodayEnergy		Today load energy	
homeLoadTodayEnergyStr		Today load energy unit	
homeLoadTotalEnergy		Total load energy	
homeLoadTotalEnergyStr		Total load energy unit	

## 3.7. /v1/api/addUser New User (Create if not exists; if exists, return userId)

### 3.7.1. Input parameters

Name	Type	Description	Note
userName	String	username	
password	String	password	
email	String	mailbox	Can be empty
mobile	String	phone number	Can be empty
userType	Integer	user level	Ordinary users pass 0

### 3.7.2. Output Parameters

Name	Type	Description	Note
userId	Long	User ID	

## 3.8. /v1/api/addStation New Plant

### 3.8.1. Input parameters

Name	Type	Description	Note
inverterSn	String	Inverter SN	Fill in the new power station to bind
stationName	String	Plant name	Required
addr	String	Plant address	Required
userId	Long	Owner Id	User (don't fill in the default operation installer)
mobile	String	phone number	User phone number (don't fill in the default operation installer)
capacity	String	Installed capacity	Required (unit kWp)
picName		image	
latitude	String	latitude	
longitude	String	longitude	
dip		inclination	
azimuth		Azimuth	
money		Currency	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 24 / 41	Eff Date: 2019年08月01日

country	Integer	country	Fixed 1
region	Integer	area	You don't need to fill in this if you have a Gaode address code
city	Integer	city	You don't need to fill in this if you have a Gaode address code
price		Revenue per kilowatt hour	Required
gdAreaCode	Integer	Gaode address code	Gaode API to obtain
offset		Time zone offset	
module	Long	Module Number	
mobile	Long	Plant Contact	
installerEmail	String	Installer Email	
installerMobile	Long	Installer Mobile	

### 3.8.2. Output Parameters

Name	Type	Description	Note
stationId	Long	Plant ID	

## 3.9. /v1/api/stationDay Plant Daily Graph

### 3.9.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	
money	String	Power plant currency unit	
time	String	time	time: "2019-07-26"
timeZone	Integer	Power plant time zone	

### 3.9.2. Output Parameters

Name	Type	Description	Note
power	Long	power	
powerStr	String	Power unit	
time	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	

## 3.10. /v1/api/stationMonth Plant Monthly Graph

### 3.10.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	





# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 25 / 41	Eff Date: 2019年08月01日

money	String	Power plant currency unit	
month	String	time	month: "2019-07"

### 3.10.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
date	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

## 3.11. /v1/api/stationYear Plant Yearly Graph

### 3.11.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	
money	String	Power plant currency unit	
year	String	time	year: "2019"

### 3.11.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
date	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 26 / 41	Eff Date: 2019年08月01日

		energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

## 3.12. /v1/api/stationAll Plant cumulative graph

### 3.12.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	
money	String	Power plant currency unit	

### 3.12.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
date	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

## 3.13. /v1/api/addDevice Add device

### 3.13.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	
sn	String	Inverter sn	Multiple inverters separated by comma

## 3.14. /v1/api/inverterDay Inverter Daily Graph

### 3.14.1. Input parameters



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 27 / 41	Eff Date: 2019年08月01日

Name	Type	Description	Note
id	Long	Inverter id	Id or sn
sn	String	Inverter sn	Id or sn
money	String	Power plant currency unit	
time	String	time	time: "2019-07-26"
timeZone	Integer	Power plant time zone	

### 3.14.2. Output Parameters

Name	Type	Description	Note
dataTimestamp	Long	Timestamp	
eToday		Energy of the day	
eTotal		Total energy	
fac		Grid frequency	
pac		Real-time power	
pacStr		Real-time power unit	
pacPec		Power percentage	
power		Installed capacity	
iAc1		AC current R	
iAc2		AC current S	
iAc3		AC current T	
uAc1		AC voltage R	
uAc2		AC voltage S	
uAc3		AC voltage T	
iPv1		DC current 1	
iPv2		DC current 2	
iPv3		DC current 3	
iPv4		DC current 4	
uPv1		DC voltage 1	
uPv2		DC voltage 2	
uPv3		DC voltage 3	
uPv4		DC voltage 4	
inverterTemperature		Inverter temperature	
acOutputType		AC output type	0:1 phase, rest are 3 phase
dcInputtype		Dc input type	NUM+1

### 3.15. /v1/api/inverterMonth Inverter Monthly Graph

#### 3.15.1. Input parameters



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 28 / 41	Eff Date: 2019年08月01日

Name	Type	Description	Note
id	Long	Inverter id	Id or SN
sn	String	Inverter sn	Id or SN
money	String	Power plant currency unit	
month	String	time	time: "2019-07"

### 3.15.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
date	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

## 3.16. /v1/api/inverterYear Inverter yearly graph

### 3.16.1. Input parameters

Name	Type	Description	Note
id	Long	Inverter id	Id or SN
sn	String	Inverter sn	Id or SN
money	String	Power plant currency unit	
year	String	time	time: "2019"

### 3.16.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
date	Long	Timestamp	1564088700000
money	Long	income	
moneyStr	String	Income unit	
batteryDischarge		Battery	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 29 / 41	Eff Date: 2019年08月01日

Energy		discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

### 3.17. /v1/api/inverterAll Inverter Cumulative Graph

#### 3.17.1. Input parameters

Name	Type	Description	Note
id	Long	Inverter id	Id or SN
sn	String	Inverter sn	Id or SN
money	String	Power plant currency unit	

#### 3.17.2. Output Parameters

Name	Type	Description	Note
energy	Long	Power generation	
energyStr	String	Power generation unit	
money	Long	income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

### 3.18. /v1/api/stationUpdate Plant modification

#### 3.18.1. Input parameters

Name	Type	Description	Note
stationName	String	Plant name	Required
addr	String	Plant address	Required
mobile	String	phone number	User phone number (don't fill in the default operation installer)



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 30 / 41	Eff Date: 2019年08月01日

capacity	String	Installed capacity	Required (unit kWp)
latitude	String	latitude	
longitude	String	longitude	
dip		inclination	
azimuth		Azimuth	
money	String	Currency	
country	Integer	country	Fixed 1
region	Integer	area	You don't need to fill in this if you have a Gaode address code
city	Integer	city	You don't need to fill in this if you have a Gaode address code
price		Revenue per kilowatt hour	Required
gdAreaCode	Integer	Gaode address code	Gaode API to obtain
module	Long	Module Number	
mobile	Long	Plant Contact	
installerEmail	String	Installer Email	
installerMobile	Long	Installer Mobile	

### 3.19. /v1/api/updateInstaller Plant sub-account Modification

#### 3.19.1. Input parameters

Name	Type	Description	Note
id	Long	Power station id	Required
installerId	String	Sub-account id	Multiple separated by commas
installer	String	Sub-account name	Multiple separated by commas

### 3.20. /v1/api/userList—User List

#### 3.20.1. Input parameters

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20
userType	Integer	user level	Query ordinary account send 1 Query sub-account send 4

#### 3.20.2. Output Parameters

Name	Type	Description	Note
id	Integer	User id	
userName	Integer	user name	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 31 / 41	Eff Date: 2019年08月01日

userType	Integer	user level	
password	Integer	password	
stationNum	Integer	Number of power stations	
mobile	String	User phone number	Can be used to log in
mobile1	String	User phone number	Cannot be used to log in
email	String	mailbox	
capacity	String	Total installed capacity	

## 3.21. /v1/api/addStationBindCollector New plant to bind collector

### 3.21.1. Input parameters – Method One (New Plant)

Name	Type	Description	Note
sn	String	Datalogger SN	For new plant, write to bind (multiple SN use comma to separate)
stationName	String	Plant name	Must fill in
addr	String	Plant address	Must fill in
userId	Long	User ID	User (Empty indicates installer)
capacity	String	Installed capacity	Must fill in ( unitkWp )
picName		Picture	
latitude	String	Latitude	
longitude	String	Longitude	
dip		Tilte angle	
azimuth		Azimuth angle	
money		Currency	
country	Integer	Country	Fixed 1
region	Integer	Region	You don' t need to fill in this if you have a Gaode address code
city	Integer	City	You don' t need to fill in this if you have a Gaode address code
price		Earning per kwh	Must fill in
gdAreaCode	Integer	Gaode address code	Gaode API to obtain
offset		Time zone offset	
type	Integer	Plant type	0 residential, 1 commercial , 2 utility, 3, poverty relief
contribution	Integer	Investment type	0 owener full investment, 1 owener loan , 2 self-investment, 3, joint investment with owner
synchronizationType	Integer	Grid connection	0 full on grid, 1 self consumption , 2



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 32 / 41	Eff Date: 2019年08月01日

		type	off grid
installTime	String	Installation time	yyyy-MM-dd HH:mm:ss
module	Long	Module Number	
mobile	Long	Plant Contact	
installerEmail	String	Installer Email	
installerMobile	Long	Installer Mobile	

### 3.21.1. Method 2: Input parameters (Plant exists)

Name	Type	Description	Note
stationId	Long	Plant ID	Must fill in
sn	String	Datalogger SN	Multiple separated by commas

## 3.22. /v1/api/delCollector Plant unbind Datalogger

### 3.22.1. Input parameters

Name	Type	Description	Note
sn	String	Datalogger SN	
deleteInvert	Integer	If delete inverter?	1.delete all inverters, 0. not delete inverter, default 0

## 3.23. /v1/api/alarmList Alarm info check

### 3.23.1. Input parameters

Name	Type	Description	Note
pageNo	String	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	String	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
stationId	Long	Plant ID	Without: Check all under the installer. With: Check the indicated plant
alarmDeviceSn	String	InverterSN	Without: Check all under the installer. With: Check the indicated plant
alarmBeginTime	String	Alarm startTime	yyyy-MM-dd, Without: check all
alarmEndTime	String	Alarm stopTime	yyyy-MM-dd, Without: check all

### 3.23.2. Output parameters

Name	Type	Description	Note
stationId	Long	Plant ID	





# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 33 / 41	Eff Date: 2019年08月01日

stationName	String	Plant name	
alarmDeviceSn	String	InverterSN	
alarmCode	String	Alarm code	
alarmLevel	String	Alarm level	1Reminder 2ordinary 3Emergency
alarmBeginTime	Long	Alarm startTime	
alarmEndTime	Long	Alarm stopTime	
alarmMsg	String	Alarm content	
advice	String	Alarm suggestion	
state	String	Alarm status	0 Pending 1Solved 2Recover

## 3.24. /v1/api/stationDetailList Batch acquire plant details

### 3.24.1. Input parameters

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100

### 3.24.2. Output parameters

Name	Type	Description	Note
id	Long	Plant ID	
stationName	String	Plant name	
addr	String	Plant address	
userId	Long	User ID	
userName	String	Owner name	
userMobile	Long	Owner mobile	
userEmail	String	Owner email	
capacity	String	Installed capacity	
capacityStr	String	Installed capacity unit	
dayEnergy		Today energy	
dayEnergyStr		Today energy unit	
monthEnergy		This month energy	
monthEnergyStr		This month energy unit	
yearEnergy		This year energy	
yearEnergyStr		This year energy unit	
allEnergy		Total energy	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 34 / 41	Eff Date: 2019年08月01日

allEnergyStr		Total energy unit	
dayInCome		Today income	
dayInComeUnit		Today income unit	
monthInCome		This month income	
monthInComeUnit		This month income unit	
yearInCome		This year income	
yearInComeUnit		This year income unit	
allInCome		Total income	
allInComeUnit		Total income unit	
fullHour		Peak hours	
picName		Picture	
power		Poower	
powerStr		Poower unit	
latitude	String	Latitude	
longitude	String	Longitude	
dip		Tilte angle	
azimuth		Azimuth angle	
price		Earning per kwh	
state		Plant status	1: Online 2: Offline 3: Alarm
dataTimestamp		Plant update time	Time Stamp
money		Currency	
brand		Brand	
countryStr		Country	
regionStr		Region	
cityStr		City	
condTxtN		Night weather	
condTxtD		Day time weather	
tmpMax		Highest Temperature	
tmpMin		Lowest Temperature	
tmpUnit		Temperature unit	
powerStationNumTree		Plant tree	
powerStationNumTreeUnit		Plant tree unit	
powerStationAvoidedCo2		CO2 reduction	
powerStationAvoidedCo2Unit		CO2 reduction unit	
module	Long	Module Number	
mobile	Long	Plant Contact	
installerEmail	String	Installer Email	
installerMobile	Long	Installer Mobile	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 35 / 41	Eff Date: 2019年08月01日

batteryPower		Battery Power	
batteryPowerStr		Battery Power unit	
batteryPowerPec		Battery PowerPercentage	
batteryDischargeEnergy		Battery discharg energy	
batteryDischargeEnergyStr		Battery discharg energy unit	
batteryChargeEnergy		Battery charge energy	
batteryChargeEnergyStr		Battery charge energy unit	
batteryPercent		Battery SOC	
psum		Meter power	
psumStr		Meter power unit	
psumPec		Meter powerPercentage	
gridPurchasedDayEnergy		Meter today purchase energy	
gridPurchasedDayEnergyStr		Meter today purchase energy unit	
gridPurchasedMonthEnergy		Meter this month purchase energy	
gridPurchasedMonthEnergyStr		Meter this month purchase energy unit	
gridPurchasedYearEnergy		Meter this year purchase energy	
gridPurchasedYearEnergyStr		Meter this year purchase energy unit	
gridPurchasedTotalEnergy		Meter total purchase energy	
gridPurchasedTotalEnergyStr		Meter total purchase energy unit	
gridSellDayEnergy		Meter today sell energy	
gridSellDayEnergyStr		Meter today sell energy unit	
gridSellMonthEnergy		Meter this month sell energy	
gridSellMonthEnergyStr		Meter this month sell energy unit	
gridSellYearEnergy		Meter this year sell energy	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 36 / 41	Eff Date: 2019年08月01日

gridSellYearEnergyStr		Meter this year sell energy unit	
gridSellTotalEnergy		Meter total sell energy	
gridSellTotalEnergyStr		Meter total sell energy unit	
familyLoadPower		Load power	
familyLoadPowerStr		Load power unit	
familyLoadPowerPec		Load powerPercentage	
homeLoadEnergy		Today load energy	
homeLoadEnergyStr		Today load energy unit	

## 3.25. /v1/api/inverterDetailList Batch acquire Inverter details

### 3.25.1. Input parameters

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100

### 3.25.2. Output parameters

Name	Type	Description	Note
id	Long	Inverterid	
sn	String	InverterSN	
stationId	Long	Plant ID	
stationName	String	Plant name	
userId	Long	User ID	
collectorId	Long	Dataloggerid	
collectorName	String	DataloggerName	
collectorsn	String	Datalogger SN	
currentState		Current status	
eToday		Today energy	
eTodayStr		Today energy unit	
eMonth		This month energy	
eMonthStr		This month energy unit	
eYear		This year energy	
eYearStr		This year energy unit	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 37 / 41	Eff Date: 2019年08月01日

eTotal		Total energy	
eTotalStr		Total energy unit	
fac		Grid frequency	
facStr		Grid frequency unit	
pac		Real timePoower	
pacStr		Real timePoower unit	
pacPec		PoowerPercentage	
fullHour		Peak hours	
picName		Picture	
power		Installed capacity	
powerStr		Installed capacity unit	
iAc1		AC CurrentR	
iAc2		AC CurrentS	
iAc3		AC CurrentT	
uAc1		AC VoltageR	
uAc2		AC VoltageS	
uAc3		AC VoltageT	
iPv1		DC Current1	
iPv2		DC Current2	
iPv3		DC Current3	
iPv4		DC Current4	
uPv1		DC Voltage1	
uPv2		DC Voltage2	
uPv3		DC Voltage3	
uPv4		DC Voltage4	
state		Plant status	1: Online 2: Offline 3: Alarm
dataTimestamp		Plant update time	Time Stamp
inverterTemperature		InverterTemperature	
nationalStandardstr		CountryStandard	
acOutputType		AC output type	0: 1ph rest: 3ph
dcInputtype		DC input type	num+1
powerFactor		Power factor	
batteryPower		Battery power	
batteryPowerStr		Battery power unit	
batteryPowerPec		Battery powerPercentage	
batteryCapacitySoc		Battery SOC	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 38 / 41	Eff Date: 2019年08月01日

batteryHealthSoh		Battery SOH	
socDischargeSet		Overdischarge SOC	
socChargingSet		Forcecharge SOC	
batteryType		Current operating battery model	
batteryVoltage		Battery voltage	
batteryVoltageStr		Battery voltage unit	
bstteryCurrent		Battery current	
bstteryCurrentStr		Battery current unit	
batteryPower		Battery power	
batteryPowerStr		Battery power unit	
batteryPowerPec		Battery powerPercentage	
batteryFailureInformation01		Battery alarm01	
batteryFailureInformation02		Battery alarm02	
batteryTodayChargeEnergy		Today battery charge energy	
batteryTodayChargeEnergyStr		Today battery charge energy unit	
batteryMonthChargeEnergy		This month battery charge energy	
batteryMonthChargeEnergyStr		This month battery charge energy unit	
batteryYearChargeEnergy		This year battery charge energy	
batteryYearChargeEnergyStr		This year battery charge energy unit	
batteryTotalChargeEnergy		Total battery charge energy	
batteryTotalChargeEnergyStr		Total battery charge energy unit	
batteryTodayDischargeEnergy		Today battery discharge energy	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 39 / 41	Eff Date: 2019年08月01日

batteryTodayDischargeEnergyStr		Today battery discharge energy unit	
batteryMonthDischargeEnergy		This month battery discharge energy	
batteryMonthDischargeEnergyStr		This month battery discharge energy unit	
batteryYearDischargeEnergy		This year battery discharge energy	
batteryYearDischargeEnergyStr		This year battery discharge energy unit	
batteryTotalDischargeEnergy		Total battery discharge energy	
batteryTotalDischargeEnergyStr		Total battery discharge energy unit	
gridPurchasedTodayEnergy		Today meter purchase energy	
gridPurchasedTodayEnergyStr		Today meter purchase energy unit	
gridPurchasedMonthEnergy		This month meter purchase energy	
gridPurchasedMonthEnergyStr		This month meter purchase energy unit	
gridPurchasedYearEnergy		This year meter purchase energy	
gridPurchasedYearEnergyStr		This year meter purchase energy unit	
gridPurchasedTotalEnergy		Total meter purchase energy	
gridPurchasedTotalEnergyStr		Total meter purchase energy unit	
gridSellTodayEnergy		Today meter sell	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 40 / 41	Eff Date: 2019年08月01日

y		energy	
gridSellTodayEnergyStr		Today meter sell energy unit	
gridSellMonthEnergy		This month meter sell energy	
gridSellMonthEnergyStr		This month meter sell energy unit	
gridSellYearEnergy		This year meter sell energy	
gridSellYearEnergyStr		This year meter sell energy unit	
gridSellTotalEnergy		Total meter sell energy	
gridSellTotalEnergyStr		Total meter sell energy unit	
familyLoadPower		HouseLoad power	
familyLoadPowerStr		HouseLoad power unit	
bypassLoadPower		BackupLoad power	
bypassLoadPowerStr		BackupLoad power unit	
pSum		Grid total active power	
pSumStr		Grid total active power unit	
psumPec		Grid total active powerPercentage	
homeLoadTodayEnergy		Today load energy	
homeLoadTodayEnergyStr		Today load energy unit	
homeLoadTotalEnergy		Total load energy	
homeLoadTotalEnergyStr		Total load energy unit	

## 3.26. /v1/api/stationDayEnergyList Batch acquire plant day Generation

### 3.26.1. Input parameters





# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 41 / 41	Eff Date: 2019年08月01日

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
time	String	Time	time: "2019-07-26"

### 3.26.2. Input parameters

Name	Type	Description	Note
id	Long	Plant ID	
energy		Generation	
energyStr	String	Generation unit	
date	Long	Time Stamp	1564088700000
money		Income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

## 3.27. /v1/api/stationMonthEnergyList Batch acquire plant month Generation

### 3.27.1. Input parameters

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
time	String	Time	time: "2019-07"

### 3.27.2. Input parameters

Name	Type	Description	Note
id	Long	Plant ID	
energy		Generation	
energyStr	String	Generation unit	



# 宁波锦浪新能源科技股份有限公司

File: Soliscloud API		Classification: Secret	
File No: XX-XXX-XXX	Ver: V1.0	Page: 42 / 41	Eff Date: 2019年08月01日

date	Long	Time Stamp	1564088700000
money		Income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	

### 3.28. /v1/api/stationYearEnergyList B Batch acquire plant year Generation

#### 3.28.1. Input parameters

Name	Type	Description	Note
pageNo	Integer	Current page number	Specify the number of response pages to be returned. The value defaults to 1
pageSize	Integer	Number per page	Specify the number of records returned in each response page. The default value is 20, max 100
time	String	Time	time: "2019"

#### 3.28.2. Input parameters

Name	Type	Description	Note
id	Long	Plant ID	
energy		Generation	
energyStr	String	Generation unit	
date	Long	Time Stamp	1564088700000
money		Income	
moneyStr	String	Income unit	
batteryDischargeEnergy		Battery discharge energy	
batteryChargeEnergy		Battery charge energy	
gridPurchasedEnergy		Meter purchase energy	
gridSellEnergy		Meter sell energy	