SolaX Cloud

User Monitoring API

Version: V 4.0

Version Information

Version	Editor	Time	Remark
V1.0	Jingke(Jacob) Li	2020-06-30	Creating
V2.0	Jingke(Jacob) Li	2020-07-30	Interface address correction, add frequency description.
V3.0	Jingke(Jacob) Li	2020-12-08	Add Registration No. example; Improve parameters Description; Change the title.
V4.0	Jingke(Jacob) Li	2021-03-13	Add battery power and PV power.

Content

1 Introduction

Solax API interface document is a guide for clients to obtaining data from Solax cloud through Http protocol. Clients can use the Solax API service to obtain real-time info of your inverters.

2 Interface format and protocol

Solax API interface accesses Solax cloud platform data through the Http protocol, and the data is returned in JSON format.

Interface address：https://www.solaxcloud.com:9443/proxy/api/

Return object：

Parameter name	Type	Description
exception	String	Response from server
result	Object	Data return
success	Boolean	Whether the data request is successful

Table 1

3 Interface permission

User can get a specific range of information through the granted tokenID. Please obtain your tokenID on the API page of Solaxcloud for free.

The tokenID can be used to obtain real-time data of your inverter system. The obtain frequency need to be lower than 10 times/min and 10,000 times/day.

4 Interface content

4.1 Request address

https://www.solaxcloud.com:9443/proxy/api/getRealtimeInfo.do?tokenId={tokenId}&sn={sn}

4.2 Request parameter

Parameter name	Importance	Type	Length	Description	Remark
sn	Required	STRING	10	Registration No. (communication module)	
tokenID	Required	STRING	23	tokenID from Solax	

Table 2

4.3 Output parameters

The Result section of the output parameters is described below.

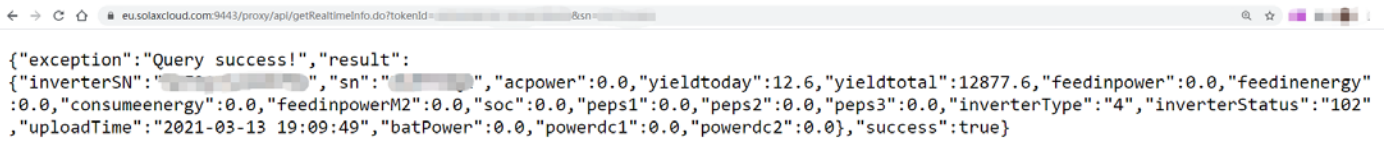| API items	Description	Accuracy	Unit
inverterSN	Unique identifier of inverter (Serial No. of inverter)	-	-
sn	Unique identifier of communication module (Registration No.)	-	-
acpower	Inverter.AC.power.total	1	W
yieldtoday	Inverter.AC.energy.out.daily	0.1	KWh
yieldtotal	Inverter.AC.energy.out.total	0.1	KWh
feedinpower	Grid.power.total	1	W
feedinenergy	Grid.energy.toGrid.total	0.01	KWh
consumeenergy	Grid.energy.fromGrid.total	0.01	KWh
feedinpowerM2	Inverter.Meter2.AC.power.total	1	W
soc	BMS.energy.SOC	1	%
peps1	Inverter.AC.EPS.power.R	1	W
peps2	Inverter.AC.EPS.power.S	1	W
peps3	Inverter.AC.EPS.power.T	1	W
inverterType	Inverter type, details refer to Table 4 in appendix	-	-
inverterStatus	Inverter status, details refer to Table 5 in appendix	-	-
uploadTime	Update time	(2016-10-26 17:33:01)	-
batPower	Inverter.DC.Battery.power.total	1	W

| powerdc1 | Inverter.DC.PV.power.MPPT1 | 1 | W |
| powerdc2 | Inverter.DC.PV.power.MPPT2 | 1 | W |

Table 3

4.4 Example

https://www.solaxcloud.com:9443/proxy/api/getRealtimeInfo.do?tokenId=**_2020 0722185111234567890_**&sn=**_ABCDEFGHIJ_**

Output:

```
{"exception":"Query success!","result":
{"inverterSN":"            ","sn":"        ","acpower":0.0,"yieldtoday":12.6,"yieldtotal":12877.6,"feedinpower":0.0,"feedinenergy"
:0.0,"consumeenergy":0.0,"feedinpowerM2":0.0,"soc":0.0,"peps1":0.0,"peps2":0.0,"peps3":0.0,"inverterType":"4","inverterStatus":"102"
,"uploadTime":"2021-03-13 19:09:49","batPower":0.0,"powerdc1":0.0,"powerdc2":0.0},"success":true}
```

Appendix

Inverter type	
Type code	**Inverter type**
1	X1-LX
2	X-Hybrid
3	X1-Hybiyd/Fit
4	X1-Boost/Air/Mini
5	X3-Hybiyd/Fit
6	X3-20K/30K
7	X3-MIC/PRO
8	X1-Smart
9	X1-AC
10	A1-Hybrid
11	A1-Fit
12	A1-Grid
13	J1-ESS

Table 4

Inverter status	
Status code	**Inverter status**
100	Wait Mode
101	Check Mode
102	Normal Mode
103	Fault Mode
104	Permanent Fault Mode
105	Update Mode
106	EPS Check Mode
107	EPS Mode
108	Self-Test Mode
109	Idle Mode
110	Standby Mode
111	Pv Wake Up Bat Mode
112	Gen Check Mode
113	Gen Run Mode

Table 5

Communication

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