



SolaX Cloud User Monitoring API

Version: V 5.0

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.
V5.0	Jingke(Jacob) Li	2021-06-01	Add PV3 and PV4 power

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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

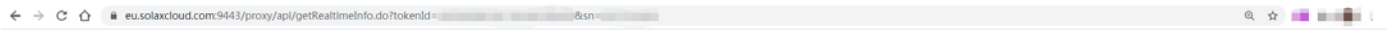
powerdc1	Inverter.DC.PV.power.MPPT1	1	W
powerdc2	Inverter.DC.PV.power.MPPT2	1	W
powerdc3	Inverter.DC.PV.power.MPPT3	1	W
powerdc4	Inverter.DC.PV.power.MPPT4	1	W

Table 3

4.4 Example

<https://www.solaxcloud.com:9443/proxy/api/getRealtimeInfo.do?tokenId=20200722185111234567890&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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