DTU-PRO-V0.0.1 test report.docx

DTU-PRO Test Report

Product name: DTU-PRO

Version: DTU-PRO-V0.0.1-1104-1409

Document Status: Published

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1. General Information

1.1 Test objects

The object of this test is DTU-Pro, version number DTU-PRO-V0.0.1-1104-1409.

1.2 Purpose of the test

Verify that the changes take effect and confirm that the basic functions of the DTU are working properly.

1.3 Test configuration

equipment	model	Numbering
	MI-600 * 2	104142104579
Micro inverse	660 2	104033102322
	MI-1200 * 2	106041600040
DTU	BTD-Pro	10F700000046
DC source	DC source Chroma 62020H-150S*2	

1.4 Test Results

1.4.1 Test Case Statistics

r	number of test cases	Pass quantity	number of failures	Unmeasured quantity
	21	21	0	0

1.4.2 List of untested cases

serial number	test case	Untested reason	follow up measures
N/A			

1.4.3 Failed use case list

serial number test case	Defect number	follow up measures
-------------------------	---------------	--------------------

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N/A		

1.4.4 Summary of problems encountered in testing

serial number		Subsequent processing method
	Description When the DTU program is upgraded locally through the U	
1	disk, it is found that some U disks are not supported. It is recommended	
	that the after-sales personnel use the upgradeable U disk model in Wang	
	Hongze's hand.	

2. Test cases and records

2.1 Local upgrade DTU program

Test case name: local upgrade DTU program						
Test execut						
Dai Tihu		November 7, 2019 ÿPass, ÿFail, ÿUntested				
skills requirer	ment					
The DTU-Pr	ro can be upgraded	locally through U disk, the firmware	storage path: root directory\Up	odate\U	pdate.hex.	
precondition	1					
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	r the check is correct, the power-on ope	eration is	normal.	
test steps						
Serial numbe	detailed description		Desired result		actual results	state
	Upgrade the DT	J firmware locally to the beta	After the upgrade the DTU w	orks	When the DTU program is	Test passed
	version.		fine.		upgraded locally through the	
					U disk, it is found that some U	
1					disks are not supported. It is	
					recommended that the after-	
					sales personnel use the	
					upgradeable U disk model in	
					Wang Hongze's hand.	
Test Data						
N/A						
data analysis						
N/A	N/A					
Image/Wav	eform					

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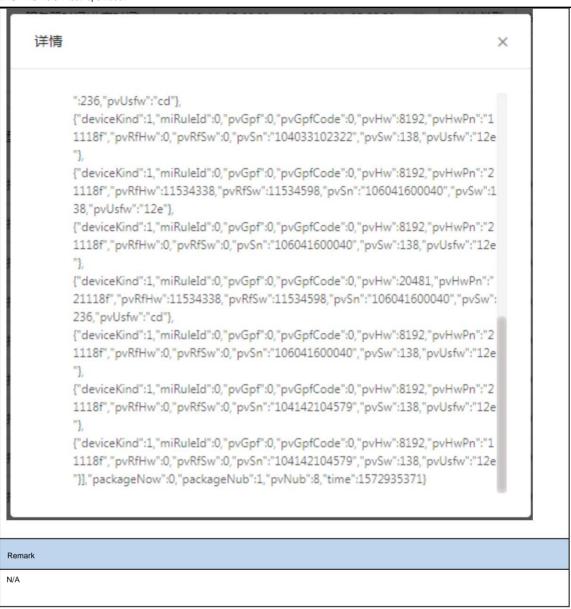
N/A	
Remark	
N/A	

2.2 Site Construction and Networking

Test Case Name: Website Construction and Networking							
Test executo	or:	Test Date:		Test Results:			
Dai Tihu		November 5, 2019		ÿPass, ÿFail, ÿ	ÿUntested		
skills requiren	nent						
The platform was releas	sed and the networking was success	sful.					
precondition							
Correctly conne	ect the power supply, mi	icro-inverter, DTU and other equipment. Afte	r the check is correct, the power-on ope	ration is normal.			
test steps							
Serial number	detailed description		Desired result	actual re	esults	state	
1		station, click Networking, and check the	The networking is correct.			Test passed	
	networking status.						
Test Data							
N/A							
data analysis	data analysis						
N/A	N/A						
Image/Wave	eform						

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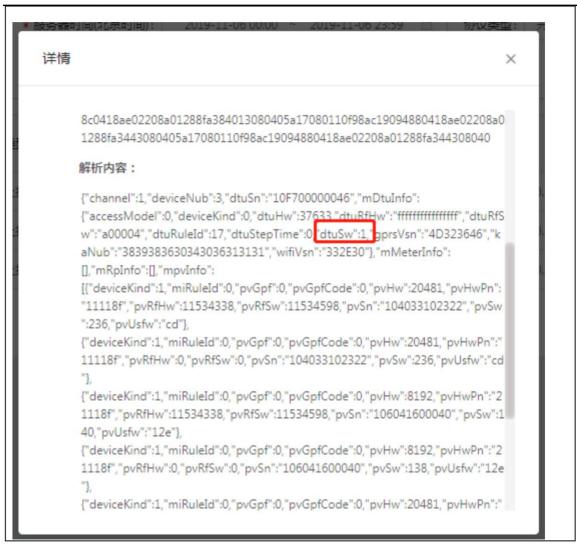


2.3 Platform upgrade DTU program



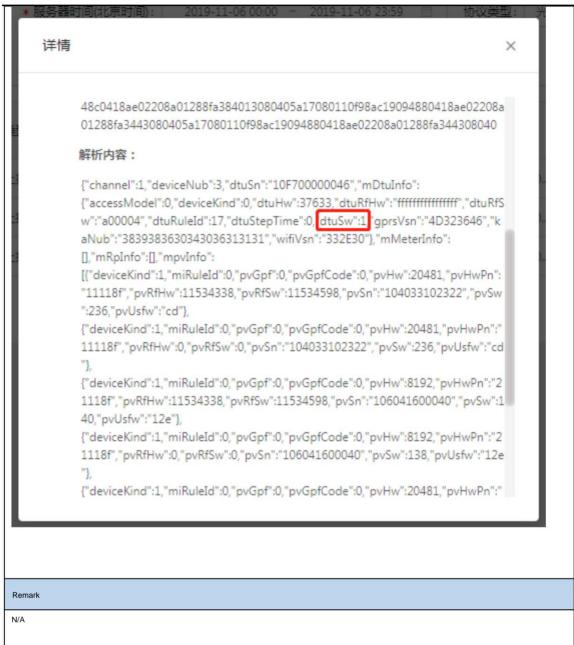
DTU-PRO-V0.0.1 test report.docx Published Update Date: November 7,						
Serial number	detailed description	Desired result	actual results	state		
1	Upgrade the DTU program on the platform to the previous release version.	The DTU upgrade was successful.	Upgrade to V0.0.1, the upgrade time is about 6 minutes.	Test passed		
2	Upgrade the DTU program from the previous release version to this beta version on the platform.	The DTU upgrade was successful.	Jpgrade to V0.0.1, the upgrade time is about 7 minutes.	Test passed		
Test Data						
N/A						
data analysis						
N/A						
Image/Wave	eform					

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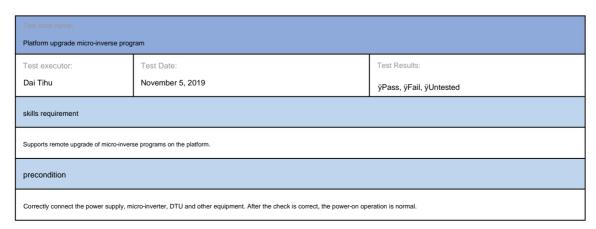


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2.4 Platform upgrade micro-inverse program



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test steps				
Serial number	detailed description	Desired result	actual results	state
1	Upgrade the one-drag-two micro-inverse program to the latest release version on the platform.	The micro-inverse program was upgraded successfully.	Upgrading from V2.36 to V2.34 takes about 28 minutes. Upgrade from	Test passed
2	Upgrade the one-drag-four micro-inverse program to the latest release version on the platform.	The micro-inverse program was upgraded successfully.	V1.38 to V1.40, about 7 minutes.	Test passed
Test Data				
N/A				
data analysis	;			
N/A				
Image/Wave	oform			
Before upgrad	ding, use normal DTU to view the micro-inverse version:			
	Link Status: Server: YC MI-On-L	ine: 08 MI-Off-Line:	00	View as: <u>English</u>
ID	HW PN-Ver FW PN	-Ver	I	nstallTime Status
	TOTAL PRODUCTION OF THE PROPERTY OF THE PROPER	001-V00.02.36 BuildTime:201		9-11-05 00
		001-V00.01.38 BuildTime:201 001-V00.02.36 BuildTime:201		9-11-05 00 9-11-05 00
After upgrade	:			
	Link Status: Server: YC MI-On-Li	ine: 08 MI-Off-Line: 0	00	View as: English
ID	HW PN-Ver FW PN-	-Ver		nstallTime Status
		001-V00.02.34 BuildTime:2018		9-11-05 00
		001-V00.01.40 BuildTime:2010		9-11-05 00
104033	102322 0011118f-V0a,00.01 001100	001-V00.02.36 BuildTime:201	8-11-27 08:50 1	9-11-05 00
Remark				
N/A				

2.5 Platform upgrade grid-connected protection file

Test case name:					
Platform upgrade grid connection protection file					
Test executor:	Test Date:	Test Results:			
Dai Tihu	November 6, 2019	ÿPass, ÿFail, ÿUntested			

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skills requirement								
DTU-Pro curre	DTU-Pro currently does not support remote upgrade of grid-connected protection files on the platform.							
precondition	1							
Correctly conn	ect the power supply, micro-inverter, DTU and other equipment. After	er the check is correct, the power-on operation i	is normal.					
test steps								
Serial numbe	detailed description	Desired result	actual results	state				
1	Upgrade the grid-connected protection file in the platform to LN_50Hz V1.1.0ÿ	The grid-connected protection file has been successfully upgraded.	DTU-Pro does not support upgrading current grid files.	test failed				
Test Data		_						
N/A								
data analysi	s							
N/A								
Image/Wave	eform							
Before sending TE 90 4 TE 90 3	g: 11 60 00 40 41 60 00 40 02 03 02 33 10 23 22 33 10 23 22 02 E1 00	11 01 83 7F 11 00 62 7F						
Remark								
N/A								

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2.6 Version information display

	Test case name: version information display									
Test executor	:	Test Date:				Test	t Results:			
Dai Tihu		November 6	, 2019			ÿΡa	ss, ÿFail, ÿUntested			
skills requirem	skills requirement									
The software and	hardware version informa	ition related to the [DTU and micro-inverse display	yed on the platform is cor	rrect.					
precondition										
Correctly conne	ct the power supply, mi	cro-inverter, DTU	and other equipment. Afte	er the check is correct,	the power-on ope	ration is	s normal.			
Test step seri	al									
number detail	ed description			Desired result			actual results		state	
1	Check the DTU sof		nd hardware version	Version informat					Test pa	assed
			re version and grid-	displayed correc					Test pa	assed
2	connected protection									
Test Data									<u> </u>	
N/A										
data analysis										
N/A										
Image/Wavef	orm									
DTU version i	nformation displayed	by the platform	n:							
DT	U-ID			状态	硬体	牛版本	*	软件版	反本	
10F	700000046 🕏			在线	VOS	9.03.	01	V00.0	0.01	
The microinverse	version information display	red by the platform:								
微逆-I	D	告警状态	连接DTU	连接中继器	硬件料号	G	GridProfile version	硬件	版本	软件版本
10414	2104579	正常	10F700000046		0011118F	-	20	H04.	00.00	V00.01.38
	1600040	正常	10F700000046		0021118F	-	20	H04.	00.00	V00.01.40
10403	3102322 🕏	• 正常	10F700000046		0011118F	L	N_50Hz V1.1.0	H10.	00.01	V00.02.36
Remark										
N/A										

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2.7 Heartbeat frame check

Test Case Na								
Heartbeat Frame Check								
Test executor		Test Date: Test Results:						
Dai Tihu		November 6, 2019		ÿPas	ss, ÿFail, ÿUntested			
skills requirer	ment							
When the D	TU does not send	data frames, it sends heartbeat fran	nes every 1 minute.					
precondition	n							
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	r the check is correct, the power-on ope	eration is	normal.			
test steps								
Serial numbe	detailed description		Desired result		actual results	state		
	Check the heartbea	t frame uploaded by the DTU on the	The heartbeat frame is correct.		The heartbeat frame is	Test passed		
	platform.				normal, but the heartbeat			
1					frame may be repeatedly			
					sent when the network is			
					unstable.			
Test Data								
N/A								
data analys	data analysis							
N/A	N/A							
Image/Wav	reform							

日志美型	设备SN	协议类型	原始内容	解析内容	流水号	服务器时间(北京时 间)	包内时间	时区
1	10F700000046	光伏心跳包	0880e101109ac589ee051818220c3130463730	("offset":28800,"time":1573020314,"csq	86	2019-11-06 14:05:24	2019-11-06 14:05:14	28800
1	10F700000046	光伏心跳包	0880e10110e3c489ee051817220c3130463730	("offset":28800,"time":1573020259,"csq	85	2019-11-06 14:04:24	2019-11-06 14:04:19	28800
1	10F700000046	光伏心跳包	0880e10110a2c489ee051816220c3130463730	{"offset":28800,"time":1573020194,"csq	84	2019-11-06 14:03:23	2019-11-06 14:03:14	28800
1	10F700000046	光伏心跳包	0880e10110e3c389ee051818220c3130463730	{"offset":28800,"time":1573020131,"csq	83	2019-11-06 14:02:24	2019-11-06 14:02:11	28800
↑	10F700000046	光伏心跳包	0880e10110aac389ee051819220c3130463730	{"offset":28800,"time":1573020074,"csq	82	2019-11-06 14:01:43	2019-11-06 14:01:14	28800
1	10F700000046	光伏心跳包	0880e10110aac389ee051819220c3130463730	{"offset":28800,"time":1573020074,"csq	82	2019-11-06 14:01:36	2019-11-06 14:01:14	28800
1	10F700000046	光伏心跳包	0880e10110aac389ee051819220c3130463730	{"offset":28800,"time":1573020074,"csq	82	2019-11-06 14:01:23	2019-11-06 14:01:14	28800
1	10F700000046	光伏心跳包	0880e10110f3c289ee051819220c3130463730	("offset":28800,"time":1573020019,"csq	81	2019-11-06 14:00:43	2019-11-06 14:00:19	28800
1	10F700000046	光伏心跳包	0880e10110f3c289ee051819220c3130463730	{"offset":28800,"time":1573020019,"csq	81	2019-11-06 14:00:43	2019-11-06 14:00:19	28800
1	10F700000046	光伏心跳包	0880e10110f3c289ee051819220c3130463730	("offset":28800,"time":1573020019,"csq	81	2019-11-06 14:00:31	2019-11-06 14:00:19	28800
日志类型	设备SN	协议类型	原始内容	解析内容	流水号	服务器时间(北京时间)	包内时间	时区
↑	10F700000046	光伏心跳包	0880e10110f3c289ee051819220c3130463730	("offset":28800,"time":1573020019,"csq	81	2019-11-06 14:00:31	2019-11-06 14:00:19	28800
1	10F700000046	光伏心跳包	0880e10110b7c289ee051819220c3130463730	("offset":28800,"time":1573019959,"csq	80	2019-11-06 13:59:23	2019-11-06 13:59:19	28800
1	10F700000046	光伏心跳包	0880e10110f9c189ee051818220c3130463730	("offset":28800,"time":1573019897,"csq	79	2019-11-06 13:58:23	2019-11-06 13:58:17	28800
1	10F700000046	光伏心跳包	0880e10110c0c189ee051818220c3130463730	("offset":28800,"time":1573019840,"csq	78	2019-11-06 13:57:38	2019-11-06 13:57:20	28800
1	10F700000046	光伏心跳包	0880e10110c0c189ee051818220c3130463730	("offset":28800,"time":1573019840,"csq	78	2019-11-06 13:57:23	2019-11-06 13:57:20	28800
1	10F700000046	光伏心跳包	0880e10110c2c089ee051818220c3130463730	("offset":28800,"time":1573019714,"csq	76	2019-11-06 13:55:23	2019-11-06 13:55:14	28800
↑	10F700000046	光伏心跳包	0880e101108bc089ee051818220c3130463730	("offset":28800,"time":1573019659,"csq	75	2019-11-06 13:54:23	2019-11-06 13:54:19	28800
•	10F700000046	光伏心跳包	0880e10110ccbf89ee051818220c3130463730	("offset":28800,"time":1573019596,"csq	74	2019-11-06 13:53:23	2019-11-06 13:53:16	28800
•	10F700000046	光伏心跳包	0880e1011092bf89ee051818220c3130463730	("offset":28800,"time":1573019538,"csq	73	2019-11-06 13:52:35	2019-11-06 13:52:18	28800
1	10F700000046	光伏心跳包	0880e1011092bf89ee051818220c3130463730	("offset":28800,"time":1573019538,"csq	73	2019-11-06 13:52:23	2019-11-06 13:52:18	28800
日志类型	设备SN	协议类型	原始内容	解析内容	流水号	服务器时间(北京时间)	包内时间	时区
1	10F700000046	光伏心跳包	0880e10110d7be89ee051818220c3130463730	("offset":28800,"time":1573019479,"csq	72	2019-11-06 13:51:23	2019-11-06 13:51:19	28800
1	10F700000046	光伏心跳包	0880e101109bbe89ee051819220c3130463730	("offset":28800,"time":1573019419,"csq	71	2019-11-06 13:50:23	2019-11-06 13:50:19	28800
↑	10F700000046	光伏心跳包	0880e10110dfbd89ee051818220c3130463730	("offset":28800,"time":1573019359,"csq	70	2019-11-06 13:49:23	2019-11-06 13:49:19	28800
1	10F700000046	光伏心跳包	0880e10110a3bd89ee051818220c3130463730	("offset":28800,"time":1573019299,"csq	69	2019-11-06 13:48:23	2019-11-06 13:48:19	28800
1	10F700000046	光伏心跳包	0880e10110e7bc89ee051818220c3130463730	("offset":28800,"time":1573019239,"csq	68	2019-11-06 13:47:23	2019-11-06 13:47:19	28800
1	10F700000046	光伏心跳包	0880e10110abbc89ee051818220c3130463730	("offset":28800, "time":1573019179, "csq	67	2019-11-06 13:46:23	2019-11-06 13:46:19	28800
^	10F700000046	光伏心跳包	0880e10110efbb89ee051818220c3130463730	("offset":28800,"time":1573019119,"csq	66	2019-11-06 13:45:23	2019-11-06 13:45:19	28800
1	10F700000046	光伏心跳包	0880e10110b3bb89ee051819220c3130463730,	("offset":28800,"time":1573019059,"csq	65	2019-11-06 13:44:23	2019-11-06 13:44:19	28800
1	10F700000046	光伏心跳包	0880e10110f6ba89ee051818220c3130463730	("offset":28800,"time":1573018998,"csq	64	2019-11-06 13:43:23	2019-11-06 13:43:18	28800
1	10F700000046	光伏心跳包	0880e10110bbba89ee051818220c3130463730	("offset":28800,"time":1573018939,"csq	63	2019-11-06 13:42:22	2019-11-06 13:42:19	28800
		Action States		- 20 IS N				

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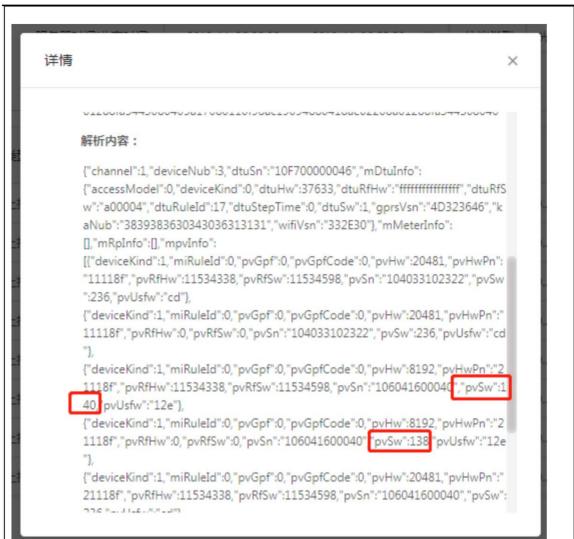
型型	设备SN	协议类型	原始内容	解析内容	流水号	服务器时间(北京时 间)	包内时间	时图
^	10F700000046	光伏心跳包	0880e10110bbba89ee051818220c3130463730	{"offset":28800,"time":1573018939,"csq	63	2019-11-06 13:42:22	2019-11-06 13:42:19	288
1	10F700000046	光伏心跳包	0880e10110c3b989ee051819220c3130463730	("offset":28800,"time":1573018819,"csq	61	2019-11-06 13:40:22	2019-11-06 13:40:19	288
1	10F700000046	光伏心跳包	0880e1011086b989ee051818220c3130463730	("offset":28800,"time":1573018758,"csq	60	2019-11-06 13:39:22	2019-11-06 13:39:18	288
↑	10F700000046	光伏心跳包	0880e10110cbb889ee051818220c3130463730	("offset":28800,"time":1573018699,"csq	59	2019-11-06 13:38:32	2019-11-06 13:38:19	288
^	10F700000046	光伏心跳包	0880e10110cbb889ee051818220c3130463730	("offset":28800,"time":1573018699,"csq	59	2019-11-06 13:38:22	2019-11-06 13:38:19	28
↑	10F700000046	光伏心跳包	0880e101108eb889ee051819220c3130463730	("offset":28800,"time":1573018638,"csq	58	2019-11-06 13:37:22	2019-11-06 13:37:18	288
1	10F700000046	光伏心跳包	0880e10110d0b789ee051819220c3130463730	("offset":28800,"time":1573018576,"csq	57	2019-11-06 13:36:22	2019-11-06 13:36:16	28
1	10F700000046	光伏心跳包	0880e1011097b789ee051818220c3130463730	("offset":28800,"time":1573018519,"csq	56	2019-11-06 13:35:22	2019-11-06 13:35:19	28
1	10F700000046	光伏心跳包	0880e10110dbb689ee051818220c3130463730	("offset":28800,"time":1573018459,"csq	55	2019-11-06 13:34:22	2019-11-06 13:34:19	28
^	10F700000046	光伏心跳包	0880e101109fb689ee051818220c3130463730	{"offset":28800,"time":1573018399,"csq	54	2019-11-06 13:33:22	2019-11-06 13:33:19	28
日志美 型	设备SN	协议类型	原始内容	解析内容	流水号	服务器时间(北京时间)	包内时间	时
^	10F700000046	光伏心跳包	0880e101109fb689ee051818220c3130463730	("offset":28800,"time":1573018399,"csq	54	2019-11-06 13:33:22	2019-11-06 13:33:19	28
1	10F700000046	光伏心跳包	0880e10110e2b589ee051819220c3130463730	("offset":28800,"time":1573018338,"csq	53	2019-11-06 13:32:22	2019-11-06 13:32:18	28
1	10F700000046	光伏心跳包	0880e10110a5b589ee051818220c3130463730	("offset":28800,"time":1573018277,"csq	52	2019-11-06 13:31:22	2019-11-06 13:31:17	28
^	10F700000046	光伏心跳包	0880e10110e4b489ee051818220c3130463730	("offset":28800,"time":1573018212,"csq	51	2019-11-06 13:30:22	2019-11-06 13:30:12	28
^	10F700000046	光伏心跳包	0880e10110aeb489ee051818220c3130463730	{"offset":28800,"time":1573018158,"csq	50	2019-11-06 13:29:22	2019-11-06 13:29:18	28
1	10F700000046	光伏心跳包	0880e10110f3b389ee051818220c3130463730	("offset":28800,"time":1573018099,"csq	49	2019-11-06 13:28:22	2019-11-06 13:28:19	28
^	10F700000046	光伏心跳包	0880e10110b3b389ee051818220c3130463730	{"offset":28800,"time":1573018035,"csq	48	2019-11-06 13:27:22	2019-11-06 13:27:15	28
^	10F700000046	光伏心跳包	0880e10110bfb289ee051819220c3130463730	("offset":28800,"time":1573017919,"csq	46	2019-11-06 13:25:22	2019-11-06 13:25:19	28
1	10F700000046	光伏心跳包	0880e1011081b289ee051818220c3130463730	("offset":28800,"time":1573017857,"csq	45	2019-11-06 13:24:22	2019-11-06 13:24:17	28
^	10F700000046	光伏心跳包	0880e10110c5b189ee051818220c3130463730	("offset":28800,"time":1573017797,"csq	44	2019-11-06 13:23:22	2019-11-06 13:23:17	28
emark								

2.8 INFO FRAME CHECK

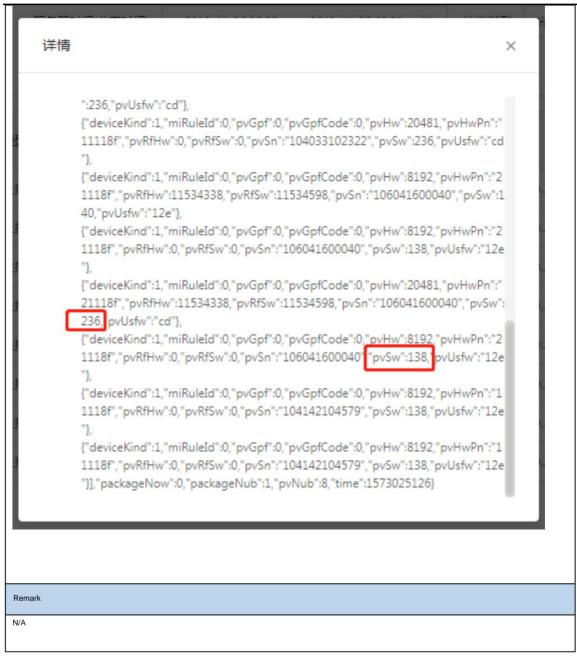
Test Case Name: InfoFrame Check						
Test executor:	Test Date:	Tes	st results:			
Dai Tihu	November 6, 2019	ÿP	ass, ÿFail, ÿUntested			
skills requirement						
The information frame sent by the	DTU to the platform should not be exce	ssive, resulting in an ID mismatch.				
precondition						
Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal.						
Test step serial						
number detailed description Desired result actual results state						

	Edit the plant, power off the DTU and restart it,	Information frames are not sent mu	ch. In the micro-inverse	Test passed
	check the info frame. Repeat five times.		version information	
			uploaded by Dtu, different	
1			port version numbers of	
,			the same micro-inverse	
			may be inconsistent. The	
			platform only chooses to	
			handle version information fo	r the first port.
Test Data				
N/A				
data analysi	s			
N/A				
Image/Wave	eform			

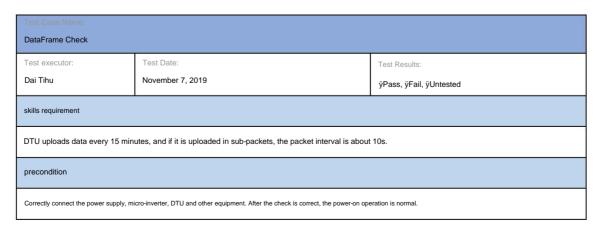
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2.9 Data Frame Check



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test steps								
Serial number	detailed description	Desired result	actual results	state				
1	Edit the power station, check the data frame no less than five times.	Packet interval 10s. The first package of d	ata in the early morning, the data such as the power generation of the day is cleared, and the cumulative power generation is consistent with the last package of the previous day.	Test passed				
2	Check that the data in the dataframe is correct.	All data are correct and decimal places are correct.		Test passed				
Test Data								
N/A								
data analysis	S							
N/A								
Image/Wave	oform							

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Document Version:

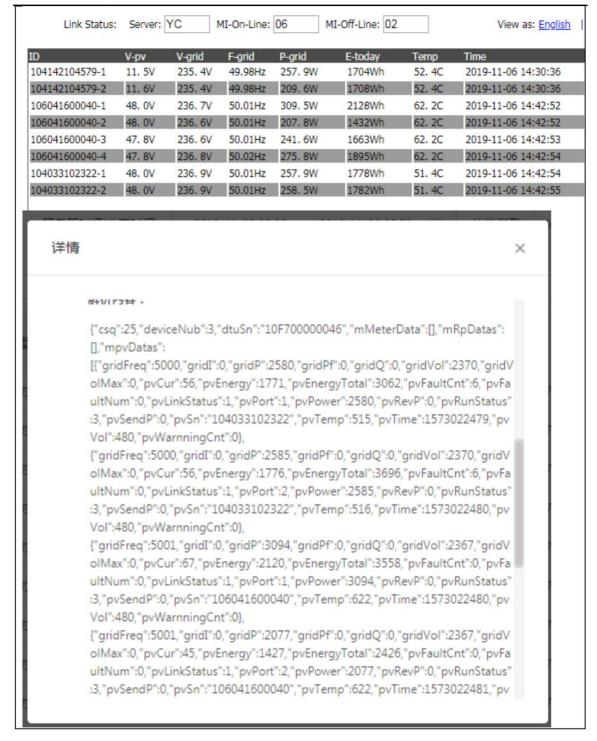


D	V-pv	V-grid	F-grid	P-grid	E-today	Temp	Time
04142104579-1	47. 6V	236. 5V	49.96Hz	258. 0W	1704Wh	52. 4C	2019-11-06 14:28:59
104142104579-2	48. 1V	236. 5V	49.96Hz	258. 6W	1708Wh	52. 4C	2019-11-06 14:28:59
106041600040-1	48. 0V	236. 1V	49.96Hz	309. 4W	2056Wh	61. 9C	2019-11-06 14:29:00
106041600040-2	48. 0V	236, 3V	49.96Hz	207. 7W	1384Wh	61. 9C	2019-11-06 14:29:01
106041600040-3	47. 8V	236. 4V	49.96Hz	241. 5W	1607Wh	62. 0C	2019-11-06 14:29:01
106041600040-4	47. 8V	236. 4V	49.96Hz	275. 6W	1832Wh	62. 0C	2019-11-06 14:29:02
104033102322-1	48. 0V	237. 3V	49.96Hz	258. 0W	1718Wh	51. 4C	2019-11-06 14:28:57
104033102322-2	48. 0V	237. 3V	49.96Hz	258. 6W	1722Wh	51. 4C	2019-11-06 14:28:58

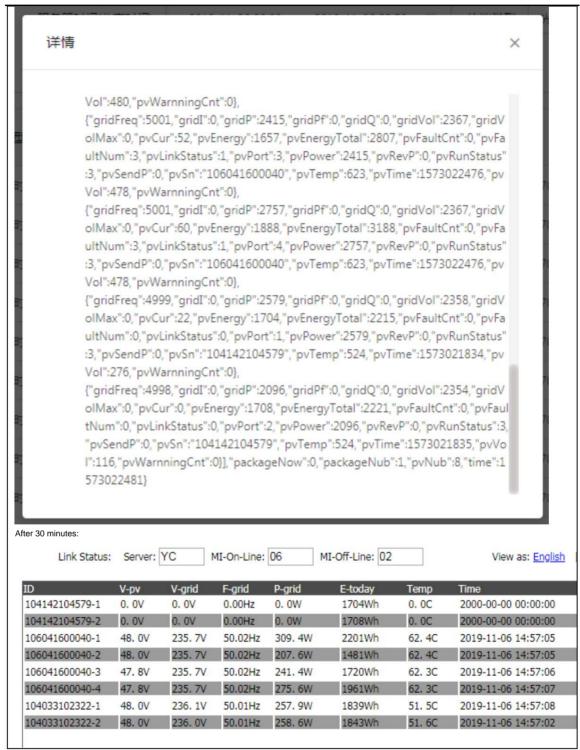
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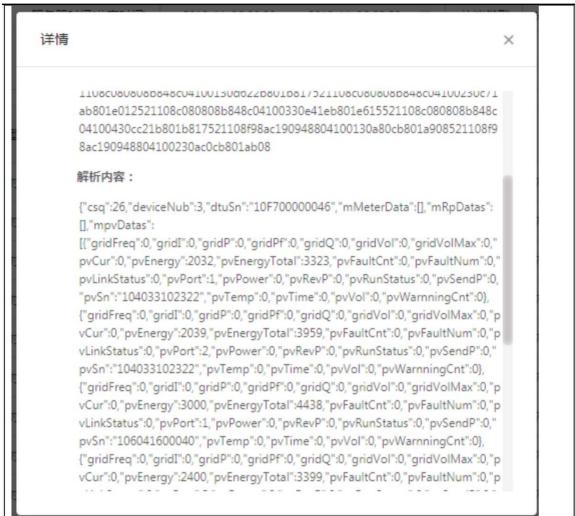
Published Update Date: November 7, 2019 DTU-PRO-V0.0.1 test report.docx 详情 130a711b801a80d521108f98ac190948804100230ad11b801ac0d 解析内容: {"csq":25,"deviceNub":3,"dtuSn":"10F700000046","mMeterData":[],"mRpDatas": [],"mpvDatas": [{"aridFrea":5003,"aridI":0,"aridP":2579,"aridPf":0,"aridO":0,"aridVol":2366,"aridV olMax":0,"pvCur":56,"pvEnergy":1836,"pvEnergyTotal":3127,"pvFaultCnt":6,"pvFa ultNum":0,"pvLinkStatus":1,"pvPort":1,"pvPower":2579,"pvRevP":0,"pvRunStatus" :3,"pvSendP":0,"pvSn":"104033102322","pvTemp":515,"pvTime":1573023380,"pv Vol":480,"pvWarnningCnt":0}, {"gridFreg":5003, "gridI":0, "gridP":2585, "gridPf":0, "gridQ":0, "gridVol":2365, "gridV olMax":0,"pvCur":56,"pvEnergy":1840,"pvEnergyTotal":3760,"pvFaultCnt":6,"pvFa ultNum":0,"pvLinkStatus":1,"pvPort":2,"pvPower":2585,"pvRevP":0,"pvRunStatus" :3,"pvSendP":0,"pvSn":"104033102322","pvTemp":515,"pvTime":1573023381,"pv Vol":480,"pvWarnningCnt":0}, {"gridFreg":5003, "gridI":0, "gridP":3094, "gridPf":0, "gridQ":0, "gridVol":2362, "gridV olMax":0,"pvCur":67,"pvEnergy":2197,"pvEnergyTotal":3635,"pvFaultCnt":0,"pvFa ultNum":0,"pvLinkStatus":1,"pvPort":1,"pvPower":3094,"pvRevP":0,"pvRunStatus" :3,"pvSendP":0,"pvSn":"106041600040","pvTemp":624,"pvTime":1573023381,"pv Vol":480,"pvWarnningCnt":0}, {"gridFreg":5003, "gridI":0, "gridP":2077, "gridPf":0, "gridQ":0, "gridVol":2362, "gridV

olMax":0,"pvCur":45,"pvEnergy":1479,"pvEnergyTotal":2478,"pvFaultCnt":0,"pvFa

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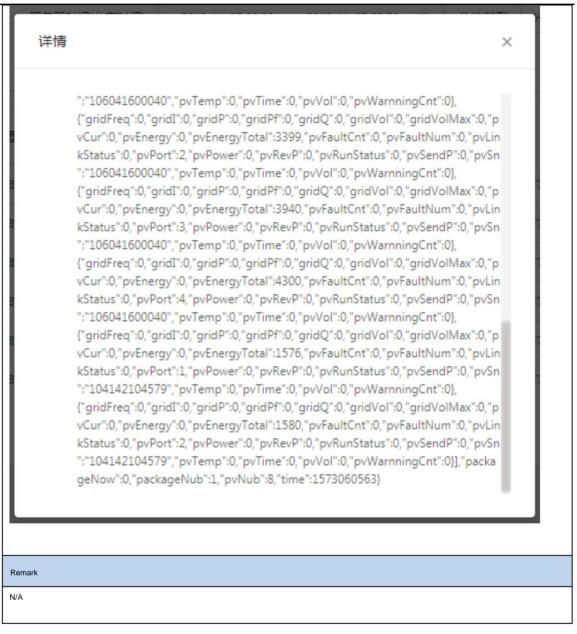


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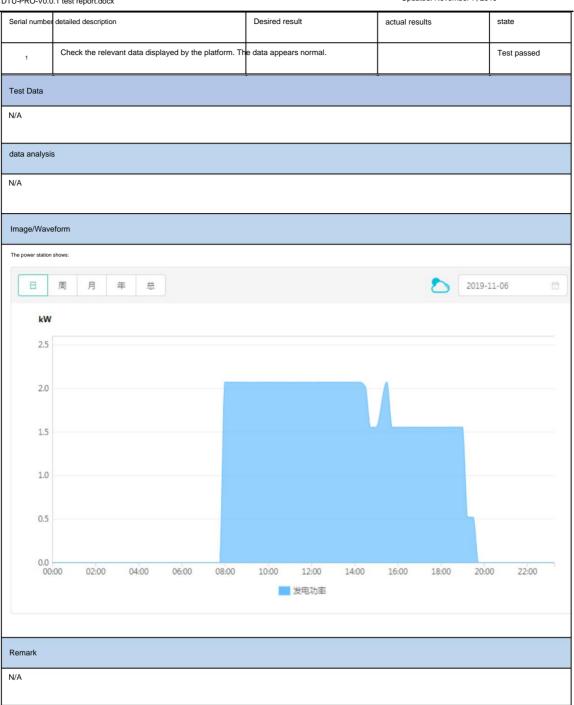
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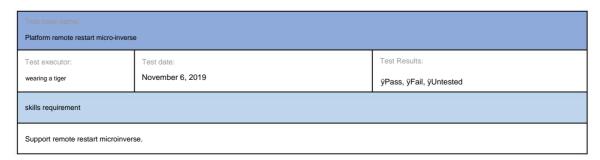
2.10 Platform data display

Test Case Name: Platform Data Display			
Test executor:	Test Date:	Test Results:	
Dai Tihu	November 7, 2019	ÿPass, ÿFail, ÿUntested	
skills requirement			
The data uploaded by the DTU, such as load power, power generation power, and power generation amount, are correct.			
precondition			
Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal.			
test steps			

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2.11 Remote restart micro-inverse of the platform



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precondition				
Correctly conne	Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal.			
test steps				
Serial number	detailed description	Desired result	actual results	state
1	In the test station, choose to restart the microinverter. The	estart was successful.		Test passed
Test Data	Test Data			
N/A				
data analysi	data analysis			
N/A				
Image/Waveform				
N/A				
Remark				
N/A				

2.12 Platform remote shutdown micro-inverse

	Test case name: Platform remote shutdown micro-inverse					
		Test date: November 7, 2019		Test Results: ÿPass, ÿFail, ÿUntested		
skills requirer	skills requirement					
Support remote shutdown micro-inverse.						
precondition	precondition					
Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal.						
test steps						
Serial numbe	detailed description		Desired result	actual results	state	
1	In the test station	, select Shutdown Micro-Inverter. Shu	t down successfully.	A single control is successful, Multiple units are not supported control (platform optional, But the prompt command is issued fail)	Test passed	
Test Data						
N/A						

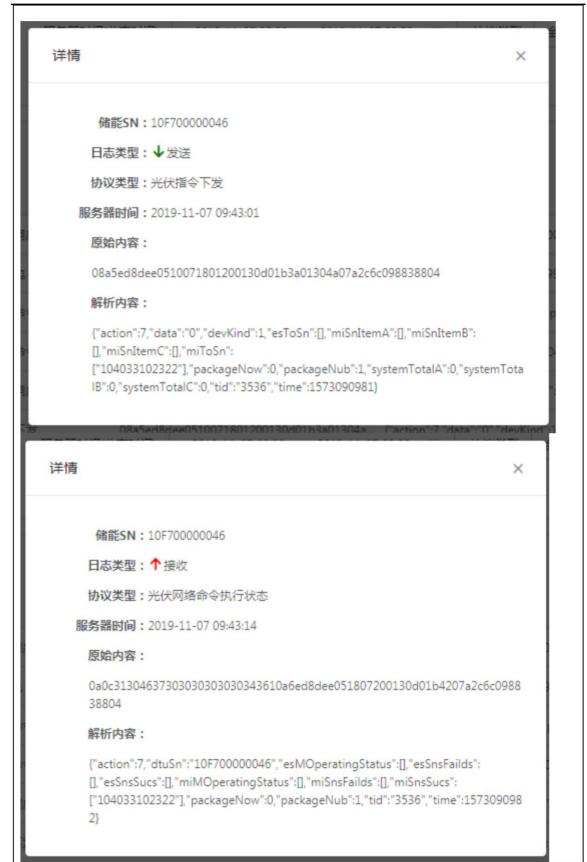
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data analysis
N/A
Image/Waveform

Published Update Date: November 7, 2019



2019-11-07 09:50:24

2019-11-07 09:50:25

2019-11-07 09:50:25

2019-11-07 09:50:26

106041600040-3

106041600040-4

104033102322-1

104033102322-2

0000

0000

0031

0031

Published Update Date: November 7, 2019 DTU-PRO-V0.0.1 test report.docx MI-Off-Line: 00 Link Status: Server: YC MI-On-Line: 08 View as: English V-grid F-grid P-grid E-today Time Temp 104142104579-1 47. 6V 232. OV 50.01Hz 257. 9W 439Wh 49.6C 2019-11-07 09:50:05 104142104579-2 48. 1V 232. 0V 50.01Hz 258. 6W 440Wh 49.7C 2019-11-07 09:50:00 106041600040-1 48. 0V 233, 6V 50.01Hz 291. 3W 13Wh 29. 3C 2019-11-07 09:50:01 106041600040-2 48. 0V 233. 6V 50.01Hz 225. 8W 10Wh 29. 3C 2019-11-07 09:50:01 106041600040-3 47. 7V 233. 4V 50.01Hz 240.9W 11Wh 29. 6C 2019-11-07 09:50:02 106041600040-4 47. 7V 233. 4V 50.01Hz 276. 1W 12Wh 29. 6C 2019-11-07 09:50:03 104033102322-1 48. 1V 231.5V 50.01Hz 0. 6W 15Wh 32. 3C 2019-11-07 09:50:04 104033102322-2 48. 1V 231. 5V 50.01Hz 17Wh 32. 3C 2019-11-07 09:50:04 Event code ID Status Fault count Time 104142104579-1 0000 0003 0000 2019-11-07 09:50:26 104142104579-2 0000 0003 0000 2019-11-07 09:50:27 106041600040-1 0000 0003 0000 2019-11-07 09:50:22 2019-11-07 09:50:23 106041600040-2 0000 0003 0000

0003

0003

0008

8000

0000

0000

0000

0000

Remark N/A

2.13 Platform remote boot micro-inversion

platform remote boot micro-inverse Test Date Test Results: Dai Tihu November 7, 2019 ÿPass, ÿFail, ÿUntested skills requirement Support remote boot micro-inverse. precondition Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal. Test step serial number detailed description Desired result actual results state In the test station, choose to start the micro-inverter. The boot was successful. Single control is successful, Test passed multiple control is not supported (platform is optional but prompts command to issue

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Test Data
N/A

data analysis

N/A

Image/Waveform

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Link Status:	Server:	YC	MI-On-Line:	08	MI-Off-Line: 00		View as: English
ID .	V-pv	V-grid	F-grid	P-grid	E-today	Temp	Time
104142104579-1	47. 6V	232. 6V	49.99Hz	258. 0W	457Wh	49. 7C	2019-11-07 09:54:14
104142104579-2	48. 1V	232. 7V	49.99Hz	258. 6W	459Wh	49. 7C	2019-11-07 09:54:14
106041600040-1	48. 0V	233. 4V	50.00Hz	291. 3W	34Wh	32. 0C	2019-11-07 09:54:15
106041600040-2	48. 0V	233. 5V	50.00Hz	226. 0W	26Wh	31. 9C	2019-11-07 09:54:16
106041600040-3	47. 7V	233. 3V	49.99Hz	240. 5W	28Wh	32. 1C	2019-11-07 09:54:11
106041600040-4	47. 7V	233. 3V	49.99Hz	276. 4W	31Wh	32. 1C	2019-11-07 09:54:11
104033102322-1	48. 0V	233. 0V	50.00Hz	252. 7W	19Wh	32. 7C	2019-11-07 09:54:17
104033102322-2	48. 0V	233. OV	49.99Hz	258. 5W	20Wh	32. 6C	2019-11-07 09:54:13
D	Ev	ent code	Stat	tus	Fault count	Time	e
104142104579-1	00	000	000	3	0000	201	9-11-07 09:54:35
104142104579-2	00	000	000	3	0000	201	9-11-07 09:54:36
106041600040-1	00	000	000	3	0000	201	9-11-07 09:54:37
106041600040-2	00	000	000	3	0000	201	9-11-07 09:54:37
106041600040-3	00	000	000	3	0000	201	9-11-07 09:54:38
106041600040-4	00	000	000	3	0000	201	9-11-07 09:54:38
104033102322-1	00	000	000	3	0000	201	9-11-07 09:54:39
104033102322-2	00	000	000	3	0000	201	9-11-07 09:54:34
mark							

2.14 Platform remote lock micro-inverse

	Test case name: platform remote lock micro-inverse								
Test executo	executor: Test Date: Test Results:								
Dai Tihu		November 7, 2019		ÿPass, ÿFail, ÿUntested					
skills requiren	nent								
Supports remote	e locking of micro-inverse	es.							
precondition									
Correctly conne	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	er the check is correct, the power-on ope	ration is normal.					
test steps									
Serial number	detailed description		Desired result	actual results	state				
	In the test station,	, choose to lock the micro-inverse. Loc	ked successfully.	A single control is successful,	Test passed				
1				and multiple control at the same					
				time is not supported (the platform					
				is not optional)					

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Image/Waveform

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Test Data

N/A

data analysis

N/A



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Link Status:	Server: YC		MI-On-Line:	08	MI-Off-Line: 00		View as: English
ID	V-pv \	/-grid	F-grid	P-grid	E-today	Temp	Time
104142104579-1	47. 7V 2	231. 3V	50.01Hz	0. 3W	485Wh	49. 6C	2019-11-07 10:03:03
104142104579-2	48. 2V 2	231. 7V	50.01Hz	0. 3W	487Wh	49. 6C	2019-11-07 10:03:09
106041600040-1	48. 0V	233. 3V	50.02Hz	290. 8W	76Wh	37. 4C	2019-11-07 10:03:04
106041600040-2	48. 0V	233. 3V	50.02Hz	226. 1W	59Wh	37. 4C	2019-11-07 10:03:04
106041600040-3	47. 7V 2	233. 4V	50.01Hz	240. 5W	63Wh	37. 5C	2019-11-07 10:03:05
106041600040-4	NAC HARDS IN	233. 4V	50.01Hz	276. 6W	73Wh	37. 5C	2019-11-07 10:03:06
104033102322-1		232. 7V	50.01Hz	257. 9W	57Wh	35. 1C	2019-11-07 10:03:07
104033102322-2	48. 0V 2	233. OV	50.01Hz	258. 5W	59Wh	35. 0C	2019-11-07 10:03:07
D	Event	code	Statı	JS	Fault count	Time	
104142104579-1	0032		0000	3	0001	2019-	11-07 10:03:24
104142104579-2	0032		3000	3	0001	2019-	11-07 10:03:25
106041600040-1	0000		0003	3	0000	2019-	11-07 10:03:26
106041600040-2	0000		0003	3	0000	2019-	11-07 10:03:26
106041600040-3	0000		0003	3	0000	2019-	11-07 10:03:27
106041600040-4	0000		0003	3	0000	2019-	11-07 10:03:28
104033102322-1	0000		0003	3	0000	2019-	11-07 10:03:28
104033102322-2	0000		0003	3	0000	2019-	11-07 10:03:29
emark							
/A							

2.15 Platform Remote Unlock Micro-Inverse

Test Case Na										
Platform Rem	Platform Remote Unlock Micro-Inverse									
Test execute	Test executor: Test Date: Test Results:									
Dai Tihu		November 7, 2019		ÿPass, ÿFail, ÿUntested						
skills requirer	skills requirement									
Supports remote	unlocking of micro-invers	es.								
precondition	ı									
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. After	er the check is correct, the power-on ope	ration is normal.						
test steps	test steps									
Serial numbe	detailed description		Desired result	actual results		state				
1	In the test station	ı, select Unlock Microinverse. Unlock	ed successfully.	A single unit is successfully and multiple units are not su		Test passed				

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		Control (platform not	
		selectable)	
Test Data			
N/A			
data analys	sis		
N/A			
Image/Wav	veform		

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Link Status:	Server:	YC N	II-On-Line:	08	4I-Off-Line: 00		View as: English
ID	V-pv	V-grid	F-grid	P-grid	E-today	Temp	Time
104142104579-1	47. 6V	232. 4V	50.00Hz	257. 9W	485Wh	48. 1C	2019-11-07 10:09:10
104142104579-2	48. 1V	232. 4V	49.99Hz	258. 6W	487Wh	48. 1C	2019-11-07 10:09:05
106041600040-1	48. 0V	233. 8V	50.00Hz	290. 8W	106Wh	40. 6C	2019-11-07 10:09:06
106041600040-2	48. 0V	233. 7V	50.00Hz	226. 2W	82Wh	40. 5C	2019-11-07 10:09:07
106041600040-3	47. 7V	233. 7V	50.00Hz	240. 3W	88Wh	40. 5C	2019-11-07 10:09:07
106041600040-4	47. 7V	233. 8V	50.00Hz	276. 8W	100Wh	40. 5C	2019-11-07 10:09:08
104033102322-1	48. 0V	233. 0V	50.00Hz	257. 9W	83Wh	37. 2C	2019-11-07 10:09:08
104033102322-2	48. 0V	233. 0V	50.00Hz	258. 6W	85Wh	37. 2C	2019-11-07 10:09:09
ID 104142104579-1	1000	ent code	Stat		Fault count	7ime 2019	
104142104579-1	1000	000	000	3	0000	2019	-11-07 10:09:37
104142104579-2	00	000	000	3	0000	2019	-11-07 10:09:37
106041600040-1	00	000	000	3	0000	2019	-11-07 10:09:38
106041600040-2	00	000	000	3	0000	2019	-11-07 10:09:39
106041600040-3	00	000	000)3	0000	2019	-11-07 10:09:40
106041600040-4	00	000	000)3	0000	2019	-11-07 10:09:40
104033102322-1	00	000	000	3	0000	2019	-11-07 10:09:40
104033102322-2	00	000	000)3	0000	2019	-11-07 10:09:36
emark							

2.16 Collect microinverse version information

	Test case name: Collect microinverse version information								
Test executor	:	Test Date: November 7, 2019							
skills requirer	skills requirement								
Supports collect	ting microinverse version	n information.							
precondition									
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	er the check is correct, the power-on oper	ation is normal.					
Test step seri	al								
number detail	ed description		Desired result	actual results	state				
1	In the test plant, se	lect Collect version information.	Send a registration frame to the platf after collection.	and multiple control at the same	Test passed				
				time is not supported (the platform is not optional)					

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Test Data
N/A
data analysis
N/A
Image/Waveform

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2.17 Clearing the ground fault

Test Case No.								
Test executo	r:	Test Date:		Test Results:				
Dai Tihu		November 7, 2019		ÿPass, ÿFail, ÿUntested				
skills requirer	ment							
Support for	clearing ground faul	ts.						
precondition	1							
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. After	r the check is correct, the power-on ope	ration is normal.				
Test step se	rial							
number deta	iled description		Desired result	actual results	state			
	At the test station	n, select Clear Ground Fault.		A single control is successful,	Test passed			
1				and multiple control at the same				
				time is not supported (the platform				
				is not optional)				
Test Data								
N/A								
data analysi	data analysis							
N/A								
Image/Wav	eform							

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	Remark	
	N/A	
_		

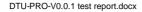
2.18 The platform remotely restarts the DTU

Test case name: Platform remote restart DTU								
Test executor	r:	Test date:	Test date: Test Results:					
wearing a tiger		November 6, 2019		ÿPass, ÿFail, ÿUntested				
skills requiren	nent							
Support rem	ote restart of DTU.							
precondition								
Correctly conne	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	er the check is correct, the power-on open	ration is normal.				
test steps								
Serial number	detailed description		Desired result	actual results	state			
1	In the test station	i, select Restart DTU. The restart wa	s successful.		Test passed			
Test Data				•				
N/A	N/A							
data analysis	data analysis							
N/A	N/A							
Image/Wave	eform							

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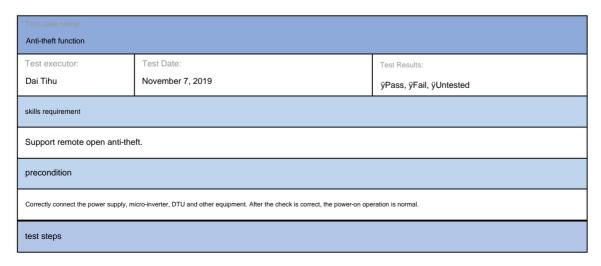


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2.19 Anti-theft function



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	Lest report dock			
Serial number	detailed description	Desired result	actual results	state
	Set the anti-theft password 00000001, check the dtu	The anti-theft setting is successful, and		Test passed
	receipt, power off the dtu and micro-inverse, add the	the micro-inverse is stolen.		
1	micro-inverse to other dtu, and check the micro-inverse			
	status. If the wrong password is entered, it will prompt			
	that the password is wrong, and the anti-theft settings	Incorrect password prompt		Test passed
2	cannot be modified. Change the anti-theft password to			
	00000003, check the dtu receipt, and after powering off	The password is changed successfully, the		Test passed
	the dtu and micro-inverse, add the micro-inverse to other	anti-theft function is effective		
3	dtu, and check the micro-inverse status. Change the anti-			
	theft password to 00000000, check the dtu receipt, power			
	off the dtu and the micro-inverse, add the micro-inverse	Anti-theft function exits.		Test passed
4	to other dtu, and check the micro-inverse status. Enter			
4	the super password 10165082, you can change the			
	password			
5		Super password is valid		Test passed
5				
Test Data				
N/A				
data analysis				
N/A				

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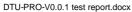


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ID	Event code	Status	Fault count	Time
104142104579-1	0014	0009	0000	2019-11-07 14:58:11
104142104579-2	0014	0009	0000	2019-11-07 14:58:11
106041600040-1	0014	0009	0001	2019-11-07 14:58:33
106041600040-2	0014	0009	0001	2019-11-07 14:58:34
106041600040-3	0014	0009	0001	2019-11-07 14:58:35
106041600040-4	0014	0009	0001	2019-11-07 14:58:36
104033102322-1	0014	0009	0000	2019-11-07 14:58:31
104033102322-2	0014	0009	0000	2019-11-07 14:58:31

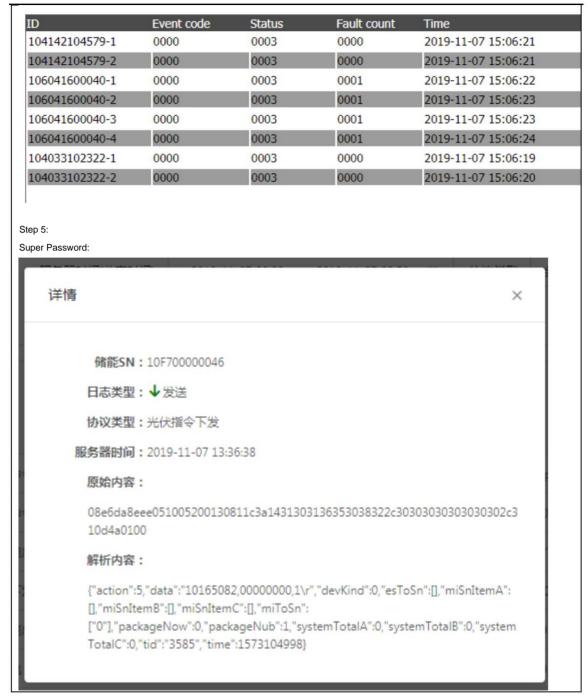
Step 4:

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Remark	
N/A	

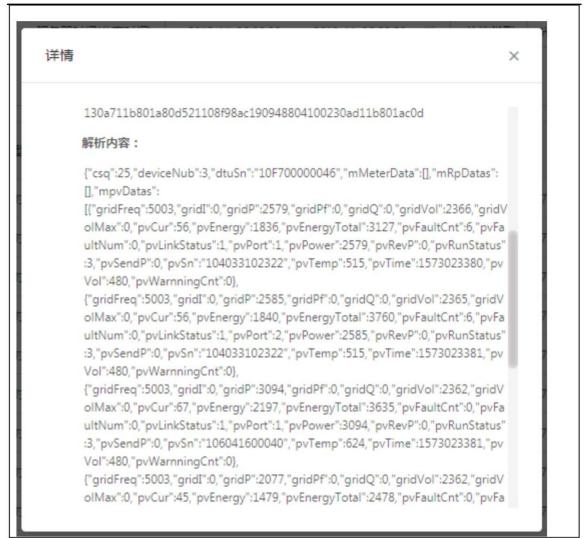
2.20 DTU data clear

Test case name: DTU data clear					
Test execute	or:	Test Date: November 6, 2019		Test Results: ÿPass, ÿFail, ÿUntested	
skills requirer	skills requirement				
When the commu	inication between the micro-i	nverter and the DTU is interrupted, about 30 minutes	later, the DTU will clear the micro-inverter data	to zero, and the power generation data will not be cleare	ed.
precondition	ı				
Correctly conn	ect the power supply, m	icro-inverter, DTU and other equipment. Afte	r the check is correct, the power-on ope	eration is normal.	
Test step se	rial				
number deta	iled description		Desired result	actual results	state
1	a period of time, t	verter continues to output power for the DTU will display the correct as power generation, voltage, and . Disconnect the micro-inverter DC		14:31 Disconnect the micro inverter power	Test passed
2	micro-inverse on	ait for a while until the data showing the DTU is cleared. Grab the data by DTU to the platform and check	Data is cleared.	14:56 The data in the data frame sent by DTU is cleared, about 25 minutes.	Test passed
Test Data					
N/A					
data analysi	s				
N/A					
Image/Wav	eform				

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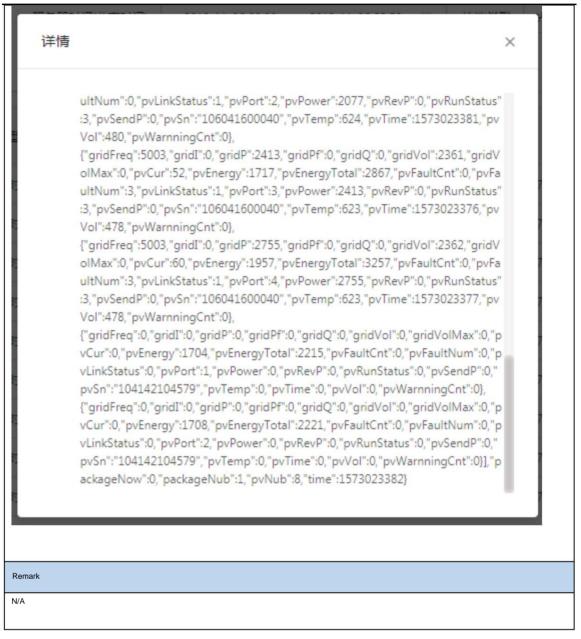
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2.21 Switching the Networking Mode

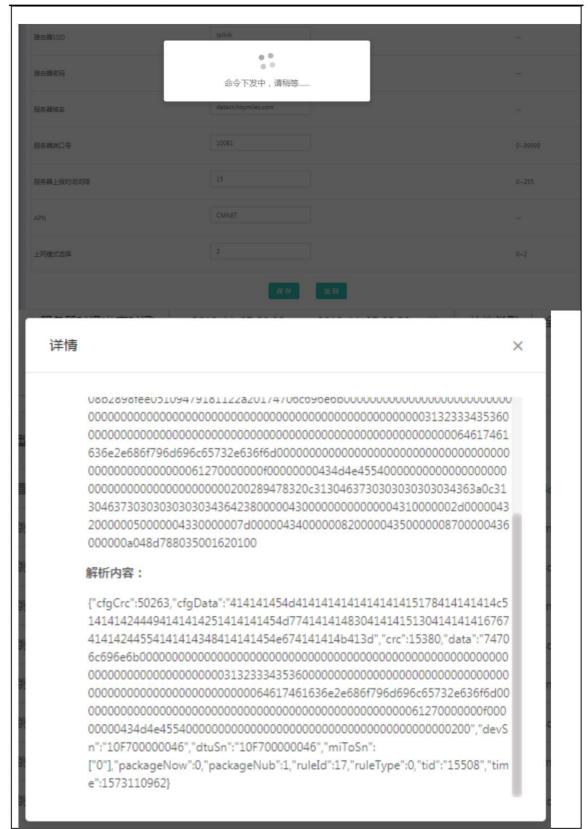
Test case name:				
Networking mode switch				
Test executor:	Test Date:	Test Results:		
Dai Tihu	November 7, 2019	ÿPass, ÿFail, ÿUntested		
skills requirement				
DTU-Pro supports modifying the networking mode on the platform: 0-GPRS mode, 2-network cable mode.				
precondition				
Correctly connect the power supply, micro-inverter, DTU and other equipment. After the check is correct, the power-on operation is normal.				
test steps				

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Serial number	detailed description	Desired result	actual results	state	
	Change the networking mode to network cable on the	The switch to the network cable mode is	After switching to the network	Test passed	
	platform. After five minutes, please check the DTU	successful.	cable mode, the DTU needs to		
1	networking status, and then plug in the network cable to		be restarted to successfully		
1	check the networking status.		connect to the network. But		
			Wang Hongze's test can be		
			switched successfully.		
	Modify the networking method on the platform to	The switch to GPRS mode is		Test passed	
2	GPRS, unplug the network cable after one minute,	successful.			
	please check the network status of DTU.				
Test Data					
N/A					
data analysis					
N/A					
N/A					
Image/Waveform					

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Step 2:

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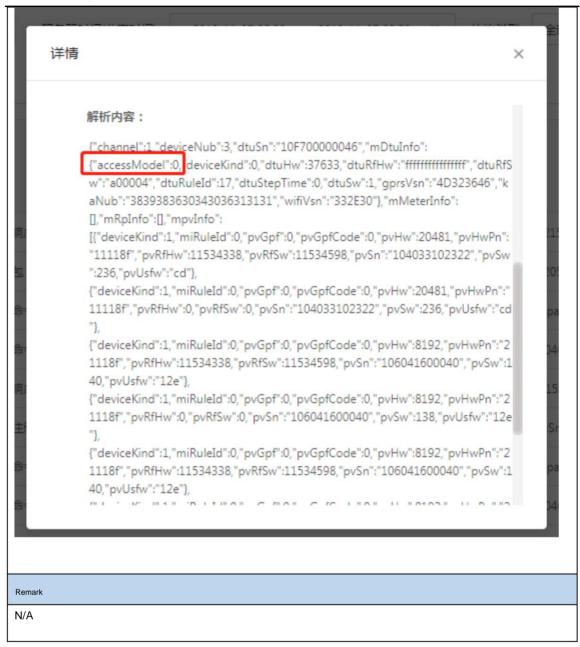


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3. Test Analysis

N/A

4. Test data attachment

N/A

5. References and Standards

a) Instructions for use of Hemai photovoltaic system

b) Smart Electric Photovoltaic Project Requirements Specification