

Projoy Electric Co., Ltd.

ADD: No.90 Chunyao Rd, Xiangcheng District, Suzhou, Jiangsu, China

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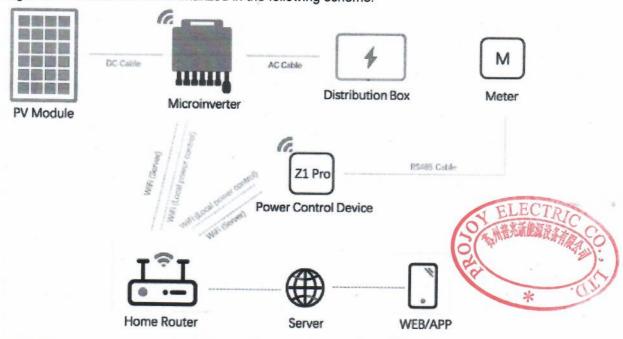
Manufacturer's declaration in accordance with the requirements of G98-Amd. 6 (2021-09) standard Sec.s 9.7.1, 9.7.2, and G99-Amd. 8 (2021-09) standard Sec.s 9.1.7, 9.1.8 regarding "Cyber Security"

Projoy Electric Co., Ltd.

based in No.90 Chunyao Rd, Xiangcheng District, Suzhou, Jiangsu, China.

declares the following:

1) The Projoy Electric Co., Ltd company's inverters include a system of internal and external logic communications as summarized in the following scheme:



where the main components involved and their main functions are explained in the following table:

Name,	Meaning	Function	Location Microinverter	
PMS	Power Management System	monitoring and management of power fluxes through the inverter, execution of local logic functions depending on grid parameters values		
Monitoring	WiFi	Transmit and data to the server and receive data from the server	Microinverter/Power Control Device	
PCS	Power Control System	Monitoring the output power of the solar system and control the it	Power Control Device	
Router	Router Device	Provide a WiFi Network for te monitoring	Third-party Device	
Meter	Meter	Measure the power data at the AC port of home grid	Third-party Device	

and the subjects/parties involved in communications with the PROJOY inverters are listed in the following table, together with the purposes of the respective communications:





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Subject	Means and devices	Operations		
End User	Mobile device (Talent Home App), PC (Talent Portal WEB)	monitoring of historical data,		
PROJOY service or installer service	Mobile device (Talent Pro App), PC (Talent Portal WEB)	remote diagnosis, system behavior monitoring, remote updates		

- 2) All communications between internal components of the microinverter/power control device take place via appropriate serial port (TTL) and are not directly connected to any device or system outside the microinverter.
- 3) The only communication port between the microinverter/power control device and the outside is constituted by the monitoring inside the microinverter; the communication between inverter and the outside world can take place via WiFi router.

4) All communications between the PROJOY server and the subjects/parties are cyber protected

by SSL technology.

5) The cyber-security assessment of the PROJOY was performed according to the ETSI EN 303 645 standard, and it is reported according to the Table B.1 form of the same standard:

Clause number an	d title		
Reference	Status	Support	Detail
5.1 No universal d	efault passwo	rds	
Provision 5.1-1	MC(1)	NA	device don not permit user's login
Provision 5.1-2	MC(1)	NA	
Provision 5.1-3	М	NA	
Provision 5.1-4	MC(8)	NA	
Provision 5.1-5	MC(5)	NA	
5.2 Implement a m	eans to mana	ge reports o	f vulnerabilities
Provision 5.2-1	M	Υ	
Provision 5.2-2	R	Υ	
Provision 5.2-3	R	Υ	
5.3 Keep software	updated		
Provision 5.3-1	R	Υ	
Provision 5.3-2	MC(5)	Υ	
Provision 5.3-3	MC(12)	NA	the end user can't update any component: only manufacturer assistance service



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			personnel can do it remotely
Provision 5.3-4	RC(12)	Υ	The manufacturer manages the updates of
			the systems by means of remote
			automatisms, selectively by type of
			machine or by activating special functions
			at the request of the user
Provision 5.3-5	RC(12)	N	see note at 5.3-4
Provision 5.3-6	RC(9,12)	N	see note at 5.3-4
Provision 5.3-7	MC(12)	Υ	
Provision 5.3-8	MC(12)	N	see note at 5.3-4
Provision 5.3-9	RC(12)	N	
Provision 5.3-10	M(11,12)	Υ	
Provision 5.3-11	RC(12)	N	
Provision 5.3-12	RC(12)	N	
Provision 5.3-13	M	Υ	
Provision 5.3-14	RC(3,4)	NA	
Provision 5.3-15	RC(3,4)	NA	
Provision 5.3-16	М	Υ	
5.4 Securely store	sensitive secu	rity param	eters
Provision 5.4-1	M	Υ	
Provision 5.4-2	MC(10)	Υ	
Provision 5.4-3	М	NA	hard-coded identity not used in source
			code
Provision 5.4-4	М	Υ	
5.5 Communicate s	securely		
Provision 5.5-1	М	Υ	
Provision 5.5-2	R	Υ	ELECTR
Provision 5.5-3	R	Υ	公共 从基础的设备。
Provision 5.5-4	R	N	(30)
Provision 5.5-5	М	Y	O. Carrier
Provision 5.5-6	R	Υ	*
Provision 5.5-7	М	Y	
Provision 5.5-8	М	Y	
5.6 Minimize expos	ed attack surfa		
Provision 5.6-1	M	Y	
Provision 5.6-2	M	Y	
Provision 5.6-3	R	Y	
Provision 5.6-4	MC(13)	NA	no debug interface accessible
Provision 5.6-5	R R	Y	no debug interface accessible
Provision 5.6-6	R	Y	
Provision 5.6-7	R	Y	
Provision 5.6-8	R	N	
Provision 5.6-9	R		
1 104131011 3.0-8	K	Υ	



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5.7 Ensure softwa	re integrity			
Provision 5.7-1	R	N		
Provision 5.7-2	R	N		
5.8 Ensure that pe	rsonal data is	secure		
Provision 5.8-1	R	NA	no personal data transit	
Provision 5.8-2	М	Y	applicable to server/cloud services and to the customer App for mobile devices	
Provision 5.8-3	М	Y		
5.9 Make systems	resilient to ou	utages		
Provision 5.9-1	R	Y		
Provision 5.9-2	R	Y		
Provision 5.9-3	R	Y		
5.10 Examine syste	em telemetry	data		
Provision 5.10-1	RC(6)	N		
5.11 Make it easy f	or users to de	elete user da	ata	
Provision 5.11-1	М	NA	no user/personal data are stored in	
Provision 5.11-2	R	NA	microinverter	
Provision 5.11-3	R	NA	1	
Provision 5.11-4	R	NA		
5.12 Make installat	ion and main	tenance of d	evices easy	
Provision 5.12-1	R	NA	no installation/maintenance operations	
Provision 5.12-2	R	NA	are available to the end user	
Provision 5.12-3	R	NA	see note at 5.3-4	
5.13 Validate input	data			
Provision 5.13-1	M	Υ		
Data protection p	rovisions for o	consumer lo	Т	
Provision 6.1	M	Υ	it only applies to the server/cloud side of	
Provision 6.2	MC(7)	Y	the service,	
Provision 6.3	М	Υ		
	DO(0)	V	no user/nesses al determination	
Provision 6.4	RC(6)	Y	no user/personal data are stored in	

Conditions:

- 1) passwords are used;
- 2) pre-installed passwords are used;
- 3) software components are not updateable;
- 4) the device is constrained;
- 5) the device is not constrained;
- 6) telemetry data being collected;
- 7) personal data is processed on the basis of consumers' consent;
- 8) the device allowing user authentication;
- 9) the device supports automatic updates and/or update notifications;
- 10) a hard-coded unique per device identity is used for security purposes;





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11) updates are delivered over a network interface;

12) an update mechanism is implemented;

13) a debug interface is physically accessible.

Status' Column:

M: Mandatory provision

R: Recommended provision

M C: Mandatory and conditional provision

R C: Recommended and conditional provision

Support' Column:

Y: Implemented

N: Not implemented

N/A: Not applicable

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