[illegible]

[illegible]MPPT[illegible] [illegible] [illegible]PWM[illegible]30[illegible]60[illegible] [illegible]3[illegible] [illegible]RS232[illegible] [illegible]MPPT[illegible] [illegible]SMART[illegible]

[illegible]

1. MPPT[illegible] 99[illegible]PWM[illegible]30[illegible]60[illegible] [illegible]

2. DC12V / 24V / 48V[illegible] [illegible] [illegible]

3. DC12V / 24V / 48V[illegible] DC100V[illegible]PV[illegible]

4.[illegible]3 [illegible]MPPT[illegible]

[illegible] [illegible]

5.[illegible] [illegible]PV[illegible] [illegible]

6.[illegible] [illegible]4[illegible] [illegible]

7.[illegible] [illegible] [illegible]PV[illegible] [illegible]

8. RS232[illegible] [illegible] [illegible]

9.[illegible] [illegible]

10. CE[illegible]RoHS[illegible] [illegible] [illegible]

11. 2[illegible] 3[illegible]10 [illegible]

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MPPT□□□□□□□□□□□□□□□ I-P-E-SMART-12V / 24V / 48V□□□□		30A
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□□□□□□□	DC12V / 24V / 48V	□□ □□
□□□□	12V□□□□	DC9V□DC15V
	24V□□□□	DC18V□DC30V
	48V□□□□	DC36V□DC60V
□□□□□□□□□	12V / 24V / 48V □□□□	≤3S
□□□□ □□□□□	12V / 24V / 48V □□□□	500US
MPPT□□	12V / 24V / 48V□□□□	≥96.5□□≤99□
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MPPT□□□ □□□□□	12V□□□□	DC14V□DC100V
	24V□□□□	DC30□DC100V
	48V□□□□	DC60□DC100V
□□□□□ □□□□□□	12V□□□□	DC14V
	24V□□□□	DC30V
	48V□□□□	DC60V
□□□□□ □□□	12V□□□□	DC18V
	24V□□□□	DC34V
	48V□□□□	DC65V
□□□□□ □□□□□□□□	12V / 24V / 48V □□□□	DC110V
□□□□□ □□□□□□□□	12V / 24V / 48V □□□□	DC100V
□□□□□□□□	12V□□□□□W□	426
	24V□□W□	852
	48V□□□□□W□	1704
CHARGE CHRECTRESTICS		
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□□□□ □□	12V / 24V / 48V□□□□	
□□□□□□	12V / 24V / 48V□□□□	30A
□□□□ □□	12V / 24V / 48V□□□□	35A
□□ □□	12V / 24V / 48V□□□□	±0.02□/℃
□□□□	12V / 24V / 48V□□□□	14.2V-□ □□□□25℃□* 0.3
□□ □□□□□□□□□	12V / 24V / 48V□□□□	200mV□

□□□□□□□□ □□	12V / 24V / 48V□ □□□	≤±1.5□
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□□□□□ □□□□□□	□□□□□10.5V;□□11V□□□□□□□□	
□□□□□□	30A	
□□□□	□□□□□□□PV□□□□□□□□□	
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LED□□□□□	□□□□□□□□□□□□□LOAD□□□□□□□□□	
PC□□□□□□□	RS232	
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□□	FCC \ ROHS \ CE	
□□□□□		
□□D×□×H□mm□□	205 * 168 * 60	
□□□□□□□□D×□×H□mm□□	265 * 196 * 110	
N.G□KG□	1.8□□	
G.N□KG□	2□□	
□□□□□□□□□	IP25	
□□		
□□	0□90□RH□□□□	
□□	0□3000□□□□	
□□□□	-20℃□+ 50℃	
□□□□	-40℃□+ 75℃	
□□□	70□□106kPa□□□	

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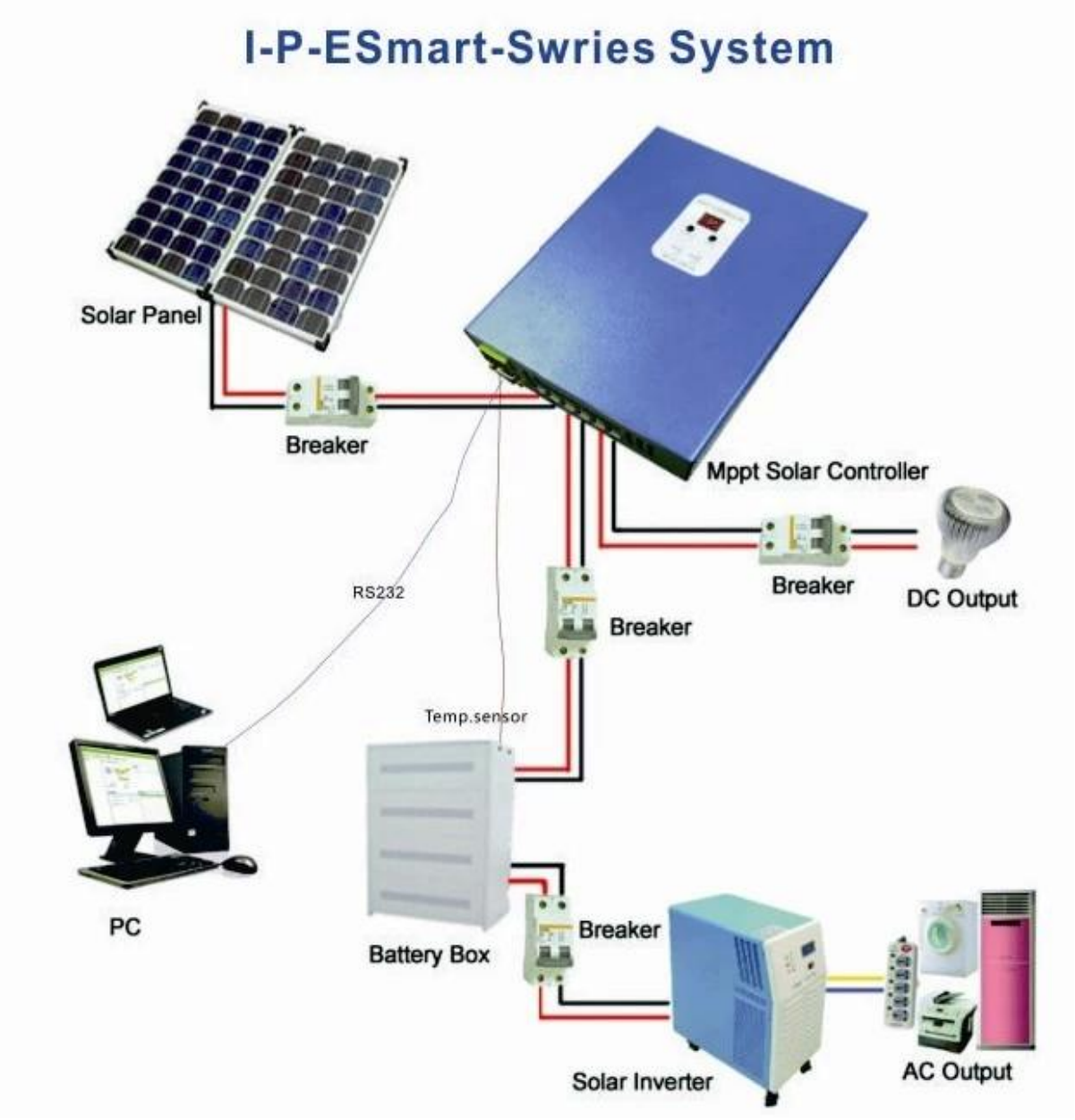
I-P-ESmart-Swries System
Solar Panel
Breaker
Mppt Solar Controller
Breaker
DC Output
RS232
Breaker
Temp.sensor
PC
Battery Box
Breaker
Solar Inverter
AC Output

□□

United testing

Certificate
Of
Compliance

Certificate Number: UNI2014041001EC-1

Applicant	:	**Shenzhen I-Panda New Energy Technology & Science Co., Ltd.** Bolck H, Juyin Technology Industrial Park, Buji Street, Longgang Distirct, Shenzhen, China.
Manufacturer	:	**Shenzhen I-Panda New Energy Technology & Science Co., Ltd.** Bolck H, Juyin Technology Industrial Park, Buji Street, Longgang Distirct, Shenzhen, China.
Product	:	**MPPT SOLAR CHARGER CONTROLLER**
Trade Name	:	**I-PANDA**
M/N	:	**SMART 60A, SMART10A, SMART 15A, SMART 20A, SMART 25A, SMART 30A, SMART 40A, SMART 50A**

Test Standard: **EN55022:2010**
EN55024:2010
(EN61000-4-2:2009, EN61000-4-3:2006+A2:2010)

The EUT described above has been tested by us with the listed standards and found in compliance with the council EMC Directive 2004/108/EC. It is possible to use CE marking to demonstrate the compliance with EMC Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNI2014041001ER-1.

2014-04-10

Date of issue

Hoffer Lau

United testing technology (Hong Kong) Limited
Unit 04,7/F,Bright Way Tower,No.33 Mong Kok Road, Kowloon, HK.
4 F, Unit 2, Jianxing Building, Chaguang Industry Area, West Shahe Road, Nanshan District, Shenzhen, PRC.
Tel:+86-755-86180996 Fax:+86-755-86180156
http://www.uni-lab.hk E-mail:hofferlau@uni-lab.hk

United testing

FCC VERIFICATION of CONFORMITY

Certificate Number: UNI2014041001FC-1

We herewith confirm the following designated product:

MPPT SOLAR CHARGER CONTROLLER

Trade Name: I-PANDA

MODEL Number:
SMART 60A, SMART10A, SMART 15A, SMART 20A, SMART 25A, SMART 30A, SMART 40A, SMART 50A

(Product Identification)

has been tested and found in compliance with the requirements of 47 CFR PART 15 regulation & ANSI C63.4 for the evaluation of Class A of electromagnetic compatibility. It is only valid in connection with the test report number: UNI2014041001FR-1.

This device complies with Part 15 of the FCC rules, operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received,

including interference that may cause undesired operation.

(Identification of regulations/standards)

This declaration is the responsibility of the manufacturer/importer

Shenzhen I-Panda New Energy Technology & Science Co., Ltd.
Bolck H, Juyin Technology Industrial Park, Buji Street, Longgang Distirct, Shenzhen, China.

(Name /Address)

MANUFACTURER / IMPORTER

FC

Name

Date

TEST LABORATORY

This is the results of test that was carried out by UNI from the submitted type samples of the product is in conformity with the specification of the respective standards.
The certificate holder has the right to fix the FCC-mark on the product conforming with the required rules.

Hoffer Lau

2014-04-10

Date of issue

United testing technology (Hong Kong) Limited
Unit 04,7/F,Bright Way Tower,No.33 Mong Kok Road, Kowloon, HK.
4 F, Unit 2, Jianxing Building, Chaguang Industry Area, West Shahe Road, Nanshan District, Shenzhen, PRC.
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http://www.uni-lab.hk E-mail:hofferlau@uni-lab.hk

United testing

Certificate
Of
Compliance

Certificate Number: UNI2014041001RC-1

Applicant	:	**Shenzhen I-Panda New Energy Technology & Science Co., Ltd.** Bolck H, Juyin Technology Industrial Park, Buji Street, Longgang Distirct, Shenzhen, China.
Manufacturer	:	**Shenzhen I-Panda New Energy Technology & Science Co., Ltd.** Bolck H, Juyin Technology Industrial Park, Buji Street, Longgang Distirct, Shenzhen, China.
Product	:	**MPPT SOLAR CHARGER CONTROLLER**
Trade Name	:	**I-PANDA**
Model Number	:	**SMART 60A, SMART10A, SMART 15A, SMART 20A, SMART 25A, SMART 30A, SMART 40A, SMART 50A**

Test Standard: **IEC62321:2013**

The EUT described above has been consolidated by us and found in compliance with the council RoHS Directive 2011/65/EU. It is only valid in connection with the test report number: UNI2014041001RR-1.

RoHS

2014-04-10

Date of issue

Hoffer Lau

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