APsystems EZ1&EZ1D (EMEA) Accessories

Rev 1.7

ALTENERGY POWER SYSTEM Inc.
emea.APsystems.com

APsystems EMEA
22 Avenue Lionel Terray, 69330 Jonage, France
Mail: info.emea@APsystems.com

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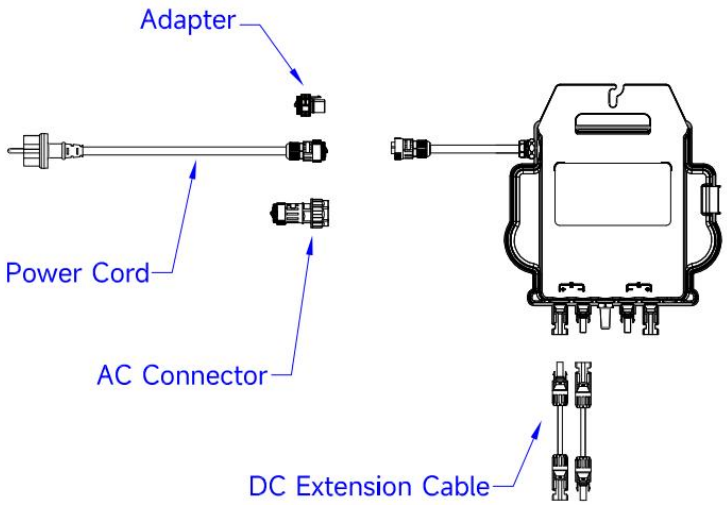
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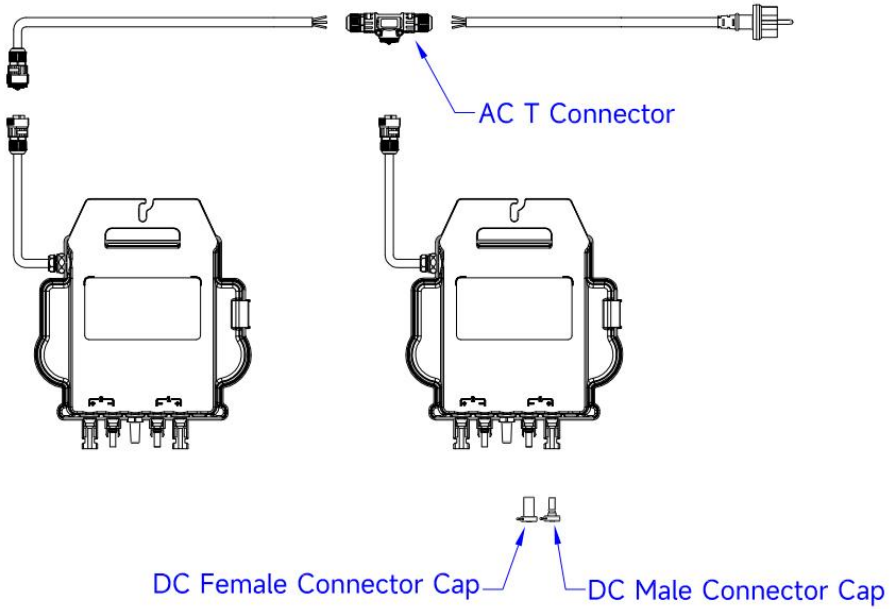
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EZ1 Series Accessories (EP030)

1.Wiring Diagram

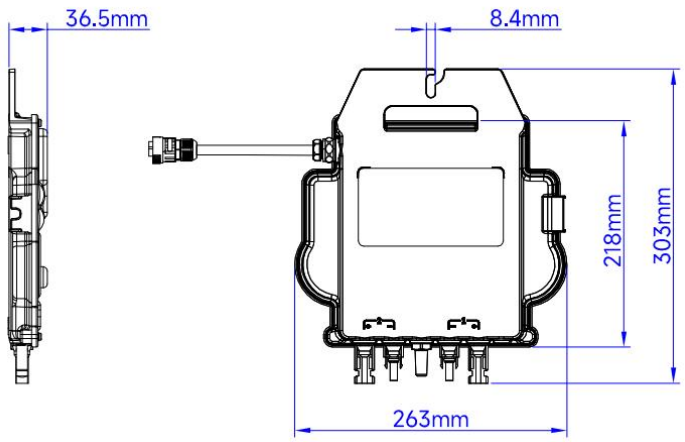




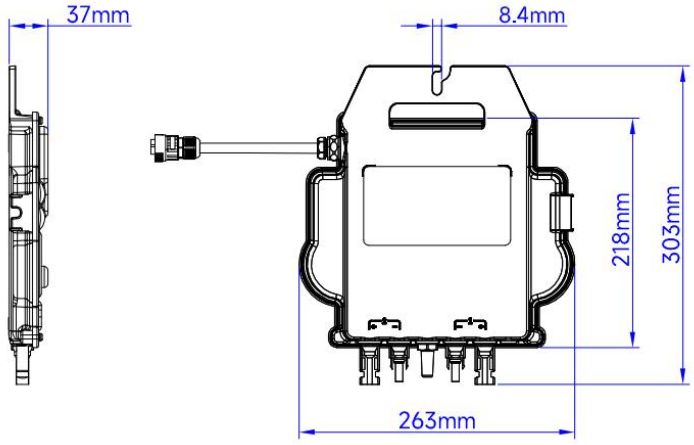
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2. EZ1 Dimensions

EZ1-S/EZ1-M



EZ1-H



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3. Accessories Summary

Region	Accessories						
	Power Cord (Optional)	**AC Connector (Female)** (Optional)	**AC T Connector** (Optional)	**Adapter** (Optional)	**DC Male Connector Cap** (Optional)	**DC Female Connector Cap** (Optional)	**DC Extension Cable** (Optional)
Europe -S-EU (133018) -M-EU(800W) (132018) -M-EU(600W) (134018) -H-EU (129018) -SPE (131055)	2337011113_EU Power Cord(EP030,1.5mm², H07,5m) (See Pic. A)	2301132022_AC Extended Connector(EP030,3C, Female) (See Pic. B)	2301232012_AC T Connector(EP-3DB,3C) (See Pic. C)	2040230003_Adapter (EP030-BC01) (See Pic. D)	2060401006_DC Male Connector Cap (MC4) (See Pic. E)	2060402006_DC Female Connector Cap (MC4) (See Pic. F)	2310360214_2m DC Extension Cable (MC4) (See Pic. G)

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

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4. Physical Picture

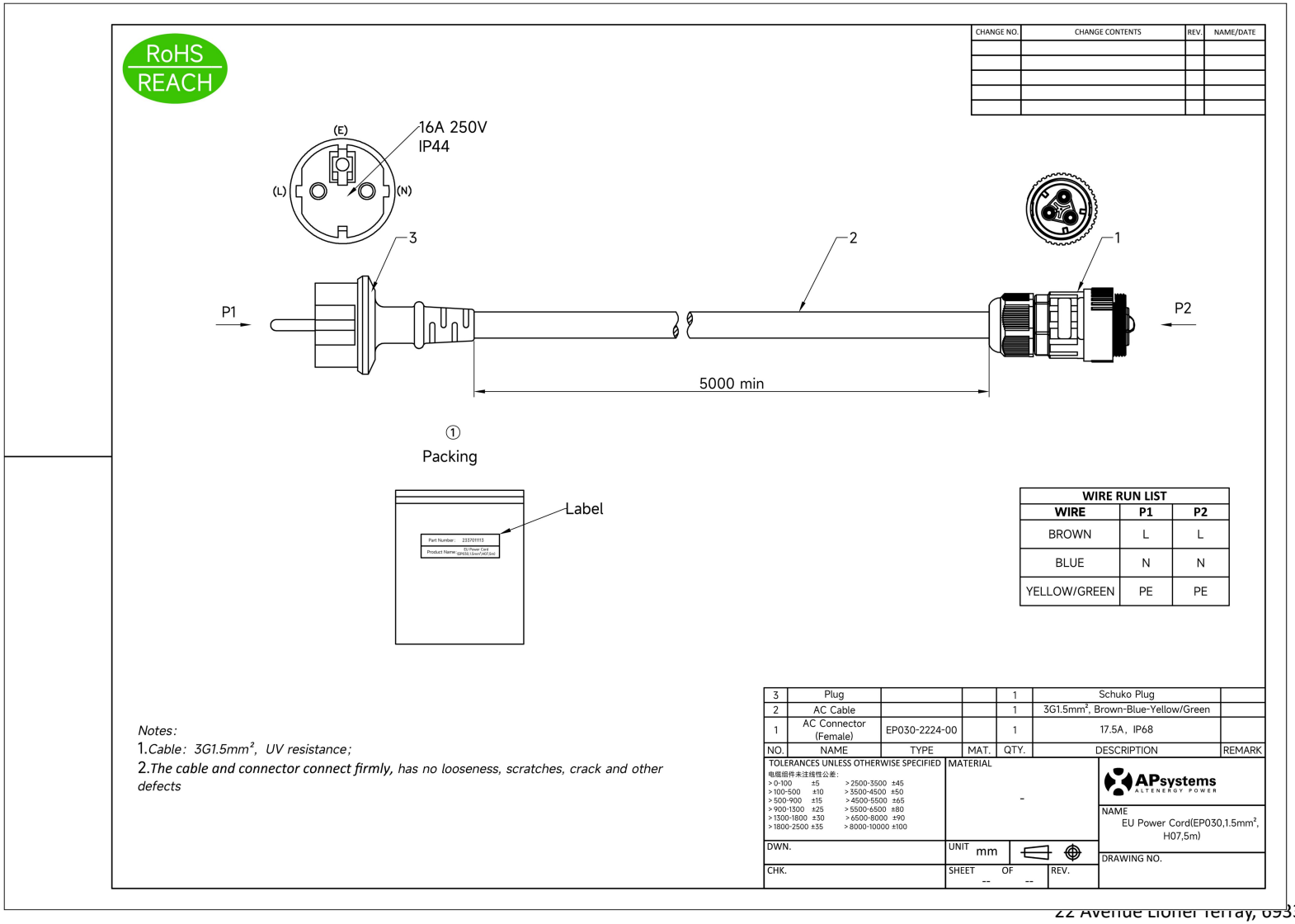
Power Cord	AC Connector	AC T Connector	Adapter	DC Male Connector Cap
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

DC Female Connector Cap	DC Extension Cable
 Pic. F	 Pic. G

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5. Accessories information

2337011113_EU Power Cord(EP030,1.5mm²H07,5m)

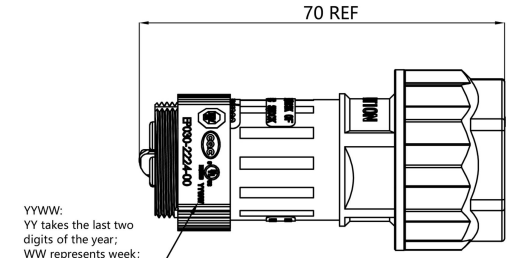


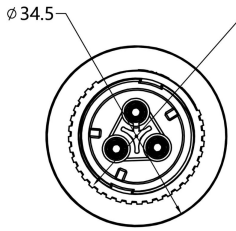
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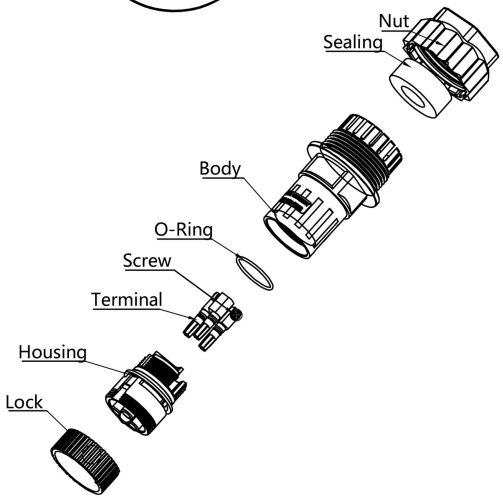
2301132022_AC Extended Connector(EP030,3C,Female)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH

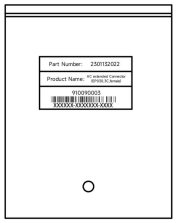






Technical Data:
Electrical:
1.Rated Voltage : TUV/CQC: 450V AC
UL: 600V AC;
2.Rated Impulse Voltage: 2500V;
3.Rated Current : 17.5A;
4.Contact Resistance : ≤10mΩ ;
5.Insulation Resistance : ≥500MΩ;
Mechanical:
1.Cable Retention Force :
OD:9-12mm,F≥100N;
2.Mating and Unmating Force≤80N;
3.Cable OD : 9.5~11.5mm;
Enviromental:
1.Waterproof Rate : IP68 1m-1H;
2.Application Temperature :-40°C~+85°C;
3.Flamming Level : UL94-V2;
Material:
1.Plastic Material : PA66 and PA66 30%GF;
2.Terminal :Copper Alloy,Ni Plating;
3.Sealing Material: Silicone Rubber;
4.Screw Material: Fe Alloy, Ni Palting;
5.Type:EP030-2224-11

Packing



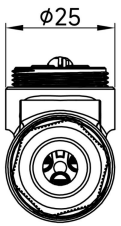
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.:	±0.50	X°:	±3.00°		APsystems ALTENERGY POWER	
.X:	±0.30	.X°:	±2.00°			
.XX:	±0.20	.XX°:	±1.00°		NAME	AC Extended Connector (EP030,3C,female)
.XXX:	±0.10	.XXX°:	±0.50°			
DWN.				UNIT mm		DRAWING NO.
CHK.				SHEET -- OF --	REV.	

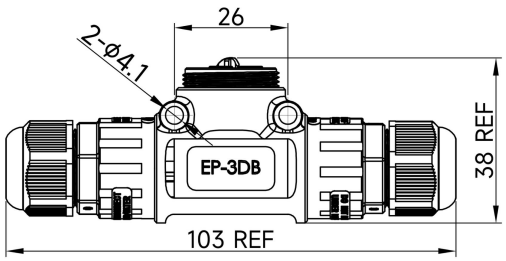
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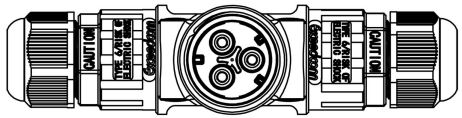
2301232012_AC T Connector(EP-3DB,3C)

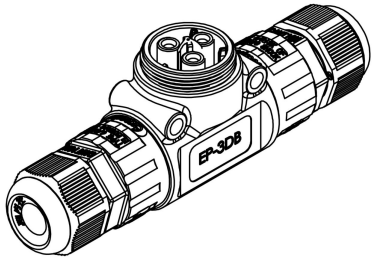
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH

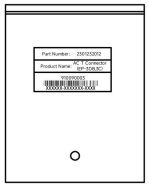




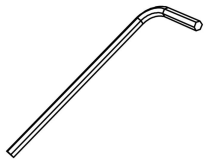




Packing



Wrench



Notes:
Electrical
1. Rated Voltage: 250V;
2. Rated Current: 17.5A;
3. Contact Resistance:≤10mΩ;
4. Insulation Resistance:≥500MΩ;
Mechanical:
1. Mating Cycle:≥500;
2. Cable Retention Force:≥100N;
3. Sealing Size: Ø11.5mm;
4. Cable O.D: 9.5~11.5mm;
5. Wire Size: 1.5mm²;
Environmental:
1. Waterproof Rate: IP68;
2. Application Temperature: -40°C~+85°C;
3. Flaming Level: UL94-V0;
Others:
1. Type No.: EP-3DB;

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X.:	±1.00	X°:	±3.00°		NAME
.X:	±0.50	.X°:	±2.00°		AC T Connector(EP-3DB,3C)
.XX:	±0.20	.XX°:	±1.00°		
.XXX:	±0.10	.XXX°:	±0.50°		
DWN.				UNIT mm	DRAWING NO.
CHK.				SHEET -- OF -- REV.	

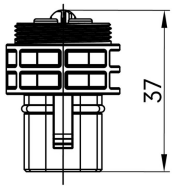
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2040230003_Adapter(EP030-BC01)

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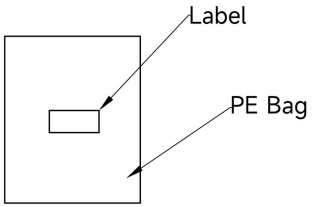
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

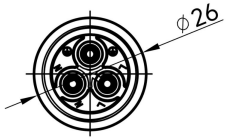


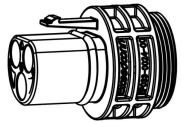




Packing





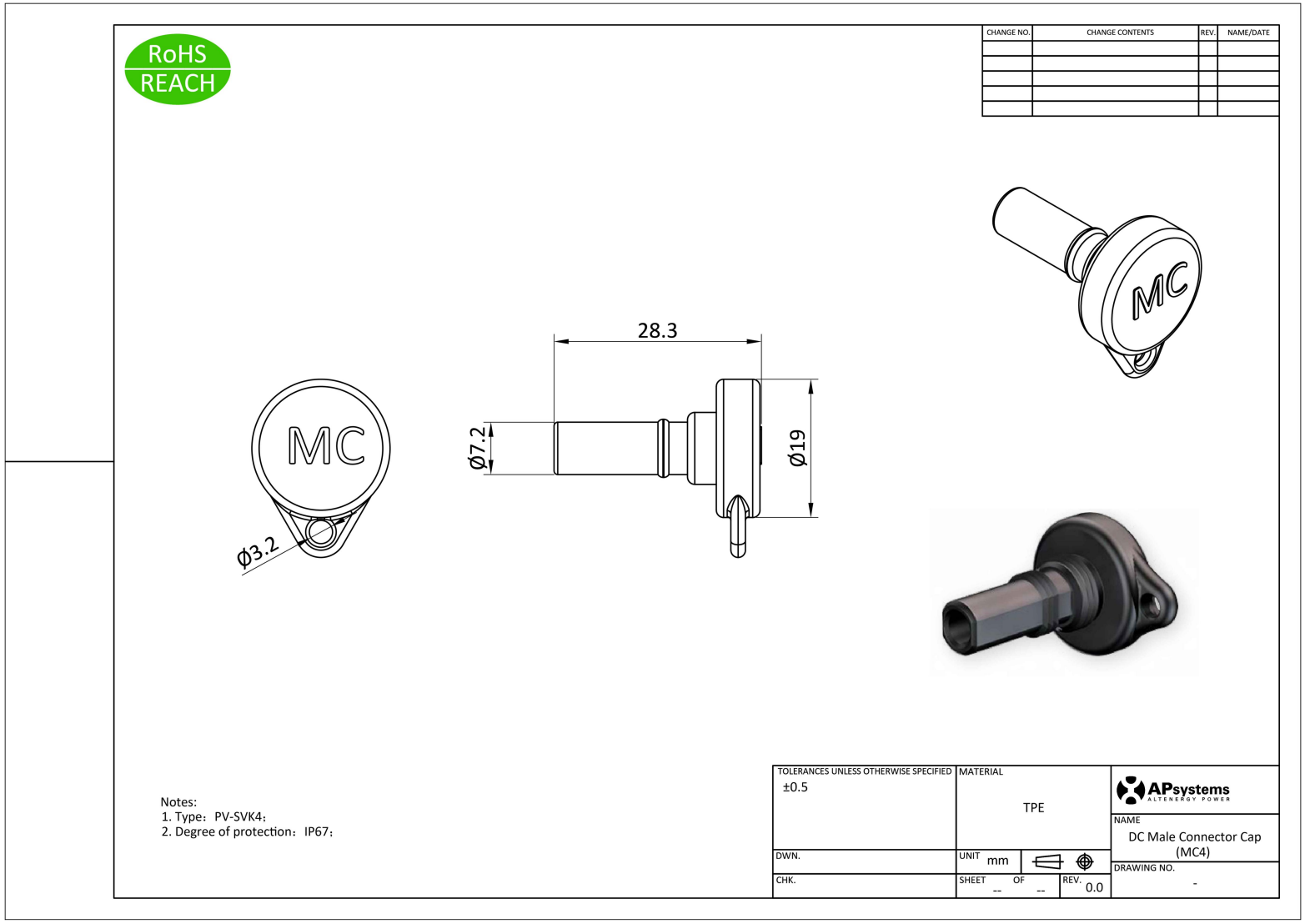


Technical Data：
Electrical:
1.Rated Voltage :300V；
2.Rated Current :17.5A,
3.Contact Resistance :≤ 5mΩ；
4.Dielectric Withstanding Voltage: 4000V；
5.Insulation Resistance :≥ 500MΩ；
Mechanical:
1.Mating Cycle： ≥50；
Enviromental:
1.Protection Level : IP68 1m-2H（After mating）；
2.Environment Temperature : -40℃~+85℃；

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X.±	0.50	X°±	2.00°		
.X±	0.30	.X°±	1.00°		NAME
.XX±	0.20	.XX°±	0.50°		Adapter（EP030-BC01）
.XXX±	0.10	.XXX°±	0.30°		
DWN.		UNIT	mm		DRAWING NO.
CHK.		SHEET	-- OF --	REV. 0.0	-

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2060401006_DC Male Connector Cap（MC4）

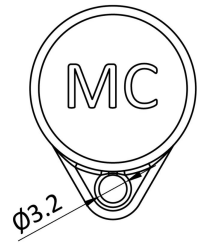


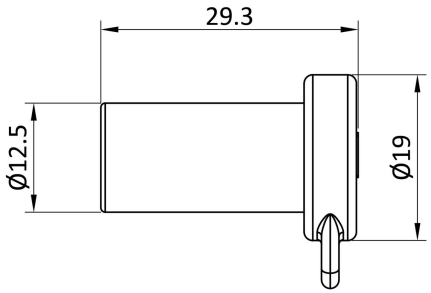
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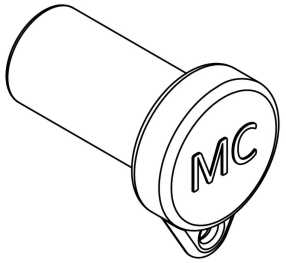
2060402006_DC Female Connector Cap（MC4）

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE









Notes:
1. Type：PV-BVK4；
2. Degree of protection：IP67；

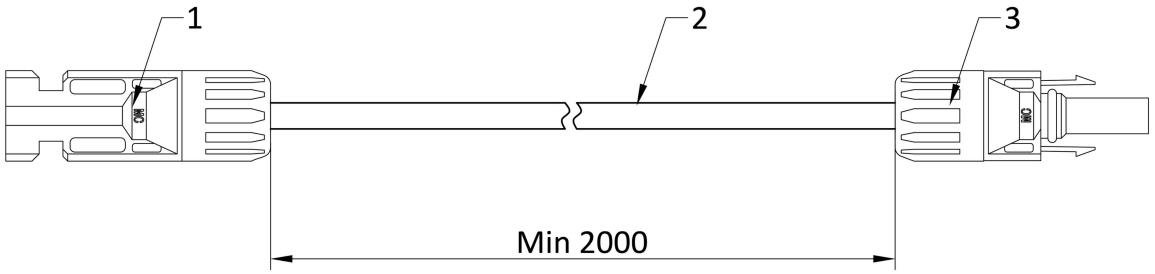
TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.5	MATERIAL TPE	APsystems ALTENERGY POWER
DWN.	UNIT mm	NAME DC Female Connector Cap (MC4)
CHK.	SHEET -- OF -- REV. 0.0	DRAWING NO. -

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2310360214_2m DC Extension Cable（MC4）

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CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
②	Add alternative cable	0.2	YFT 2022-9-14



	NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
	3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
①	2	DC Cable	FLEX-SOL-EVO-DX 4.0		1	4.0mm², TUV/UL certification	
			62930 IEC 131/PV		1	4.0mm²/12AWG, TUV/UL certification	Alternative
	1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

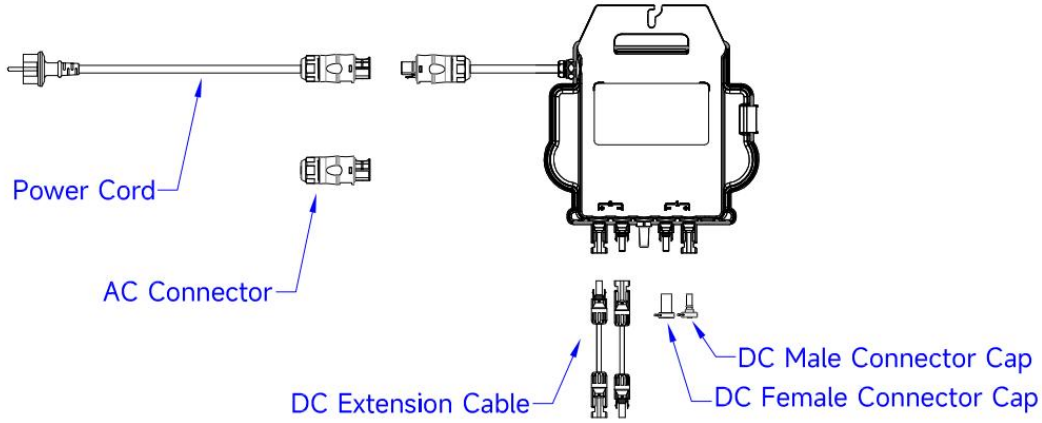
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
>0-100	±5	>2500-3500	±45		
>100-500	±10	>3500-4500	±50		NAME: 2m DC Extension Cable (MC4)
>500-900	±15	>4500-5500	±65		
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET --	OF --	REV. 0.2	

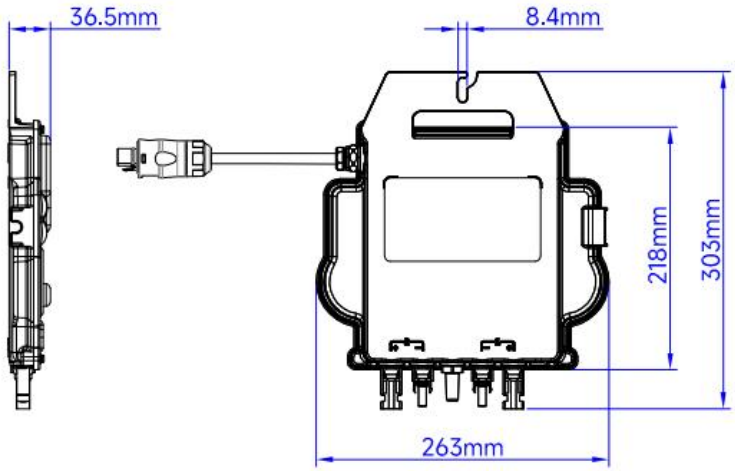
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EZ1 Series Accessories (BC01)

1. Wiring Diagram



2. EZ1 Dimensions



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3. Accessories Summary

Region	Accessories				
	EU Power Cord (Optional)	**AC Connector (Female)** (Optional)	**DC Male Connector Cap** (Optional)	**DC Female Connector Cap** (Optional)	**DC Extension Cable** (Optional)
Europe **-M-EU(600W)** **(134068)** **-M-EU(800w)** **(132068)** **--SPE(400W)** **(136072)**	2337041134_EU Power Cord(1.5mm^2,BC01,H07,5m) (See Pic. A1)	2301632304_AC Connector(BC01,3C,Female) (See Pic. B)	2060401006_DC Male Connector Cap (MC4) (See Pic. C)	2060402006_DC Female Connector Cap (MC4) (See Pic. D)	2310360214_2m DC Extension Cable (MC4) (See Pic. E)

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

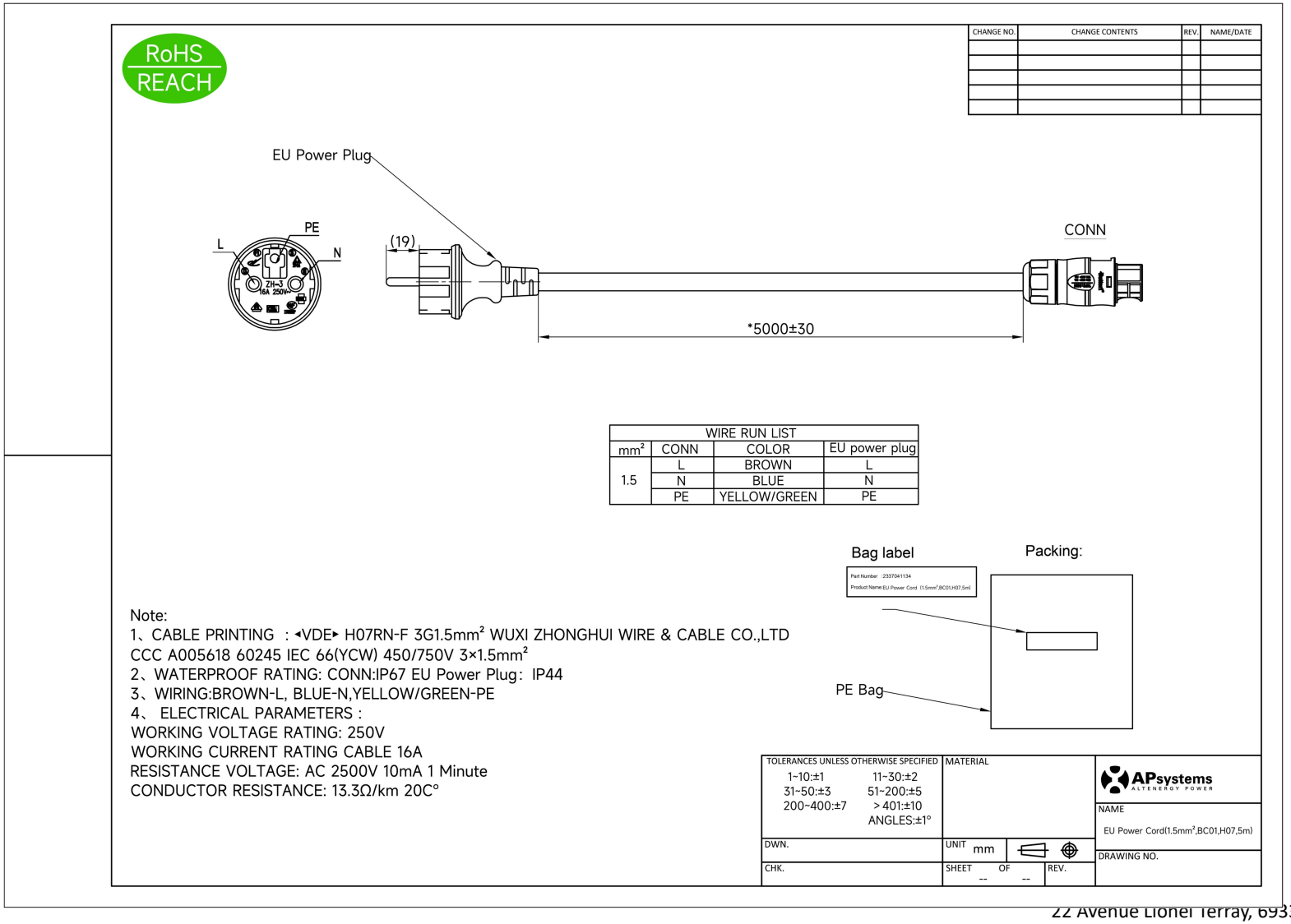
4. Physical Picture

EU Power Cord	AC Connector	DC Male Connector Cap	DC Female Connector Cap	DC Extension Cable
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

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5. Accessories information

2337041134_EU Power Cord(1.5mm²,BC01,H07,5m)

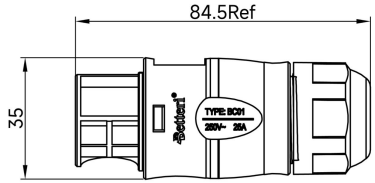


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2301632304_AC Connector(BC01,3C,Female)

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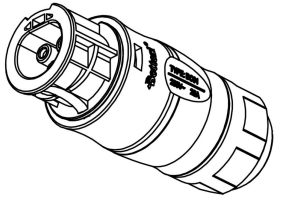


Packing

Lable

Part Number: 2301632304
Product Name: AC Connector (BC01,3C,female)

PE Bag



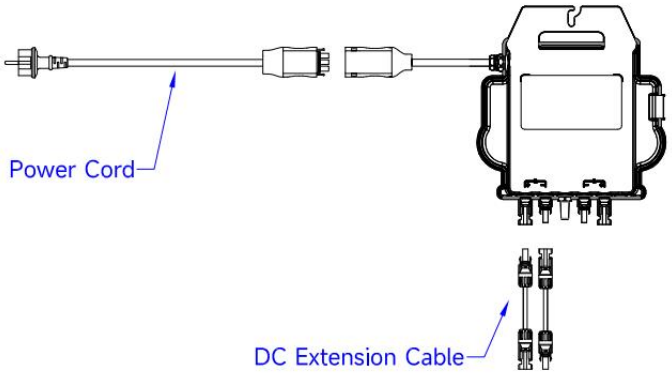
Notes:
Electric testing:
1. Rated Voltage:CSA:250/350V AC; TUV:250 AC;
2. Rated Current:25A;
3. Contact Resistance:≤1mΩ;
4. Dielectric Withstanding Voltage:4000V
5. Insulation resistance: ≥500MΩ;
Mechanical property:
1. Mating Cycle: ≥500 times;
2.Cable O.D: 10~13mm;
Environmental performance:
1. Waterproof rating: IP68 1m-60min(After mating);
2. Operating Temperature: -40°C~+85°C
Others:
1.Type No:BC01-3F22-15

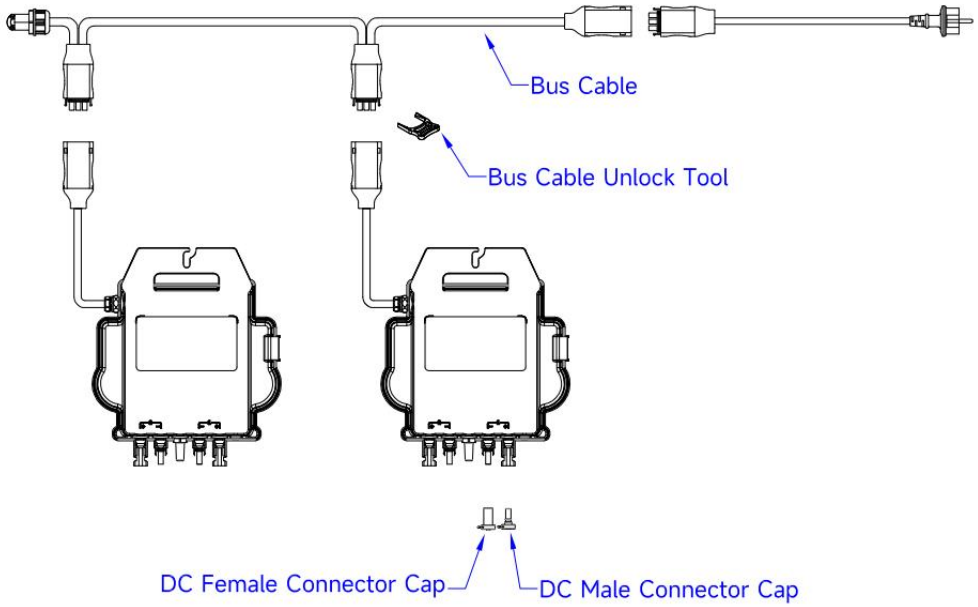
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X.	±3.00	X°	±3.00°	PPO	
.X	±2.00	.X°	±2.00°		NAME
.XX	±1.00	.XX°	± .00°		AC Connecter (BC01,3C,female)
.XXX	±0.50	.XXX°	±0.50°		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV.	

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EZ1 Series Accessories (Y3)

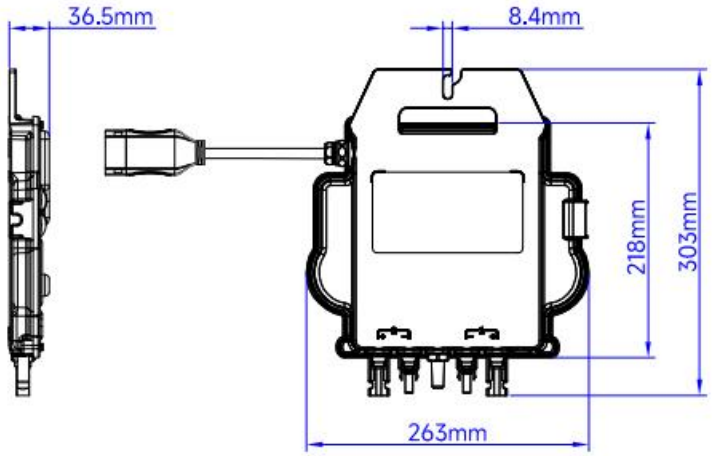
1. Wiring Diagram





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2. EZ1 Dimensions



3. Accessories Summary

Region	Accessories					
	Power Cord (Mandatory)	**Bus Cable** (Optional)	**Unlock Tool** (Supply)	**DC Male Connector Cap** (Optional)	**DC Female Connector Cap** (Optional)	**DC Extension Cable** (Optional)
Europe -M-EU(600W) (134070) -M-EU(800W) (132070) -H-EU (129070) -SPE(500W) (131073)	2337023232_EU Power Cord(Y3,2.5mm²,H07,4m) (See Pic. A) 2337023332_EU Power Cord(Y3,2.5mm²,H07,1m) (See Pic. A) 2337023432_EU Power Cord(Y3,2.5mm²,H07,10m) (See Pic. A)	2322974903_Dual Parallel Bus Cable(2.5mm2,H07,2m) (See Pic. B) 2322984903_Dual Parallel Bus Cable(2.5mm2,H07,4m) (See Pic. B)	Y Bus Cable Unlock Tool (See Pic. C)	2060401006_DC Male Connector Cap (MC4) (See Pic. D)	2060402006_DC Female Connector Cap (MC4) (See Pic. E)	2310360214_2m DC Extension Cable (MC4) (See Pic. F)

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs

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4. **Physical Picture**

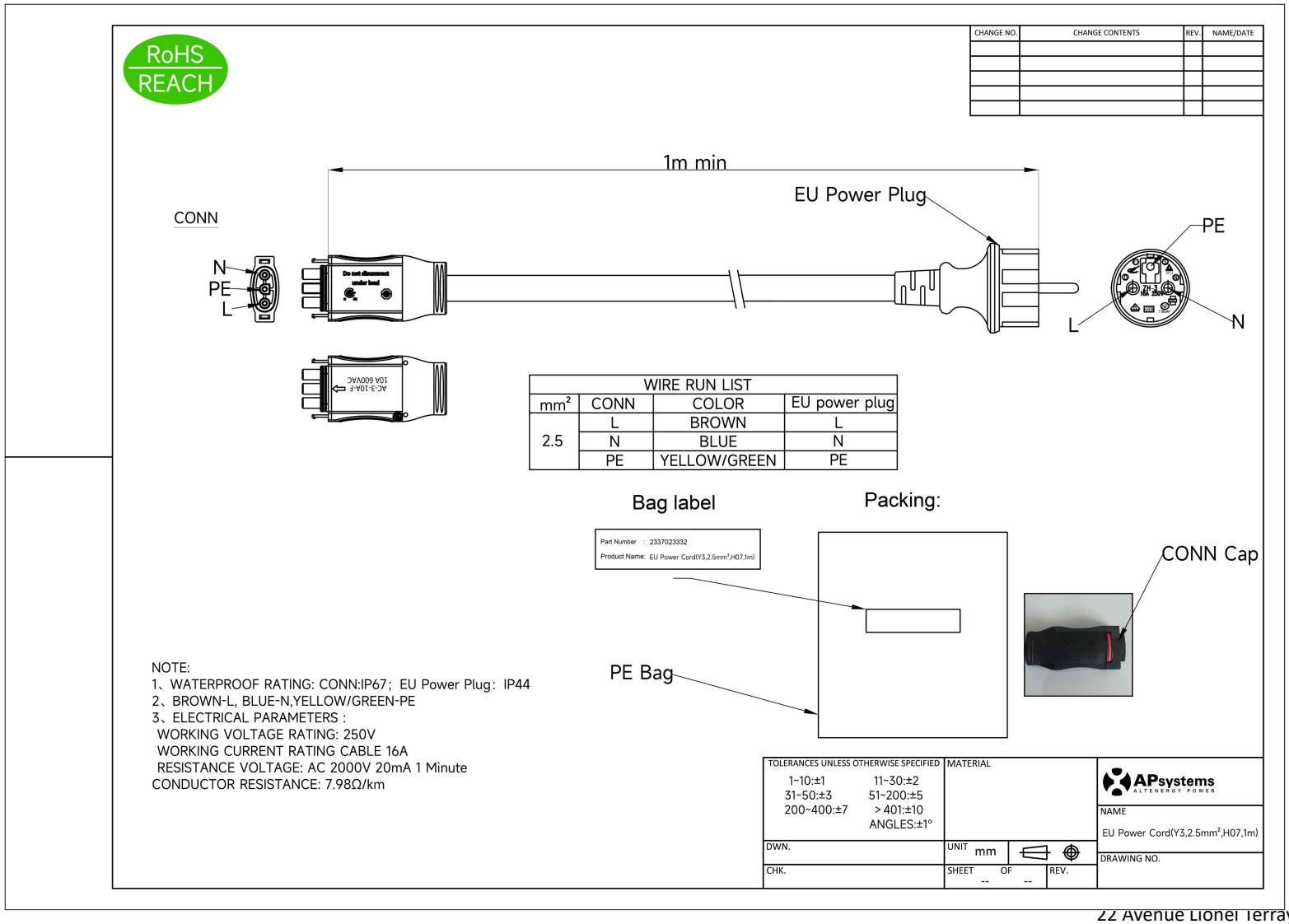
Power Cord	Bus Cable	Unlock Tool	DC Male Connector Cap	DC Female Connector Cap
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

DC Extension Cable
 Pic. F

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5. Accessories information

2337023332_EU Power Cord(Y3,2.5mm²,H07,1m)

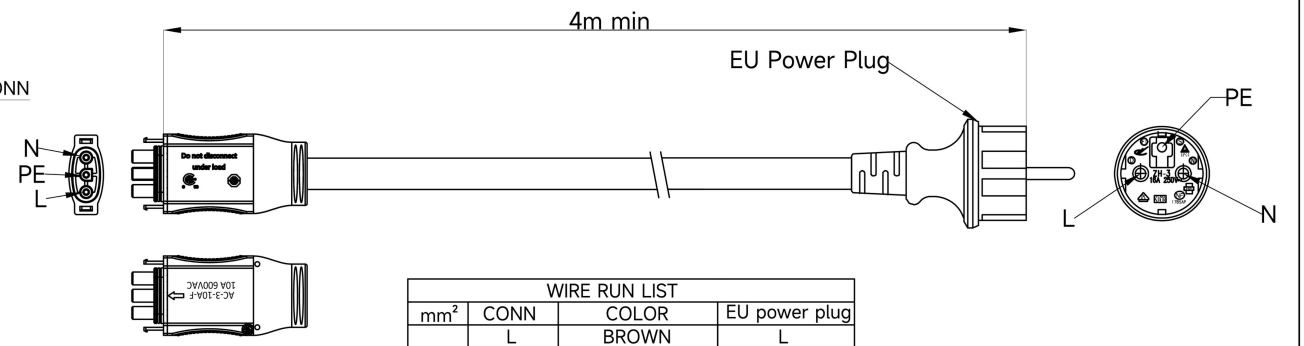


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2337023232_EU Power Cord(Y3,2.5mm²,H07,4m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH

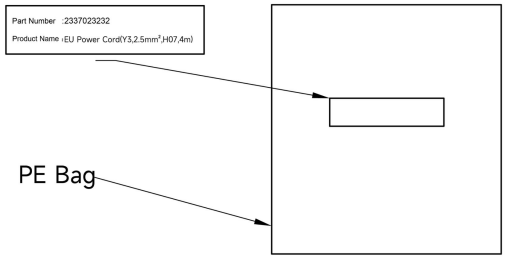


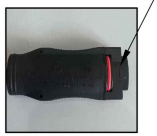
WIRE RUN LIST			
mm²	CONN	COLOR	EU power plug
2.5	L	BROWN	L
	N	BLUE	N
	PE	YELLOW/GREEN	PE

Bag label

Part Number :2337023232
Product Name :EU Power Cord(Y3,2.5mm²,H07,4m)

Packing:



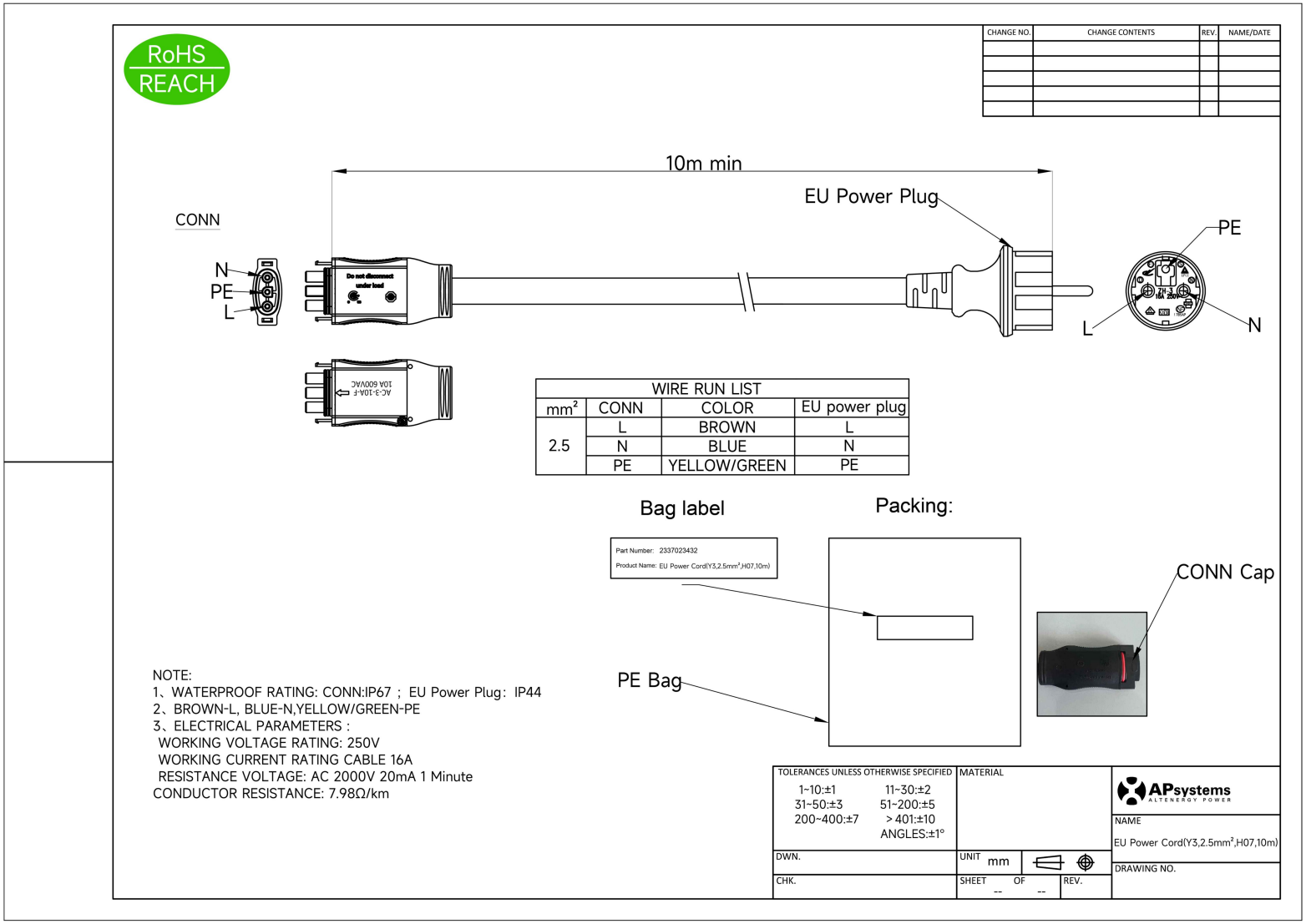


NOTE:
1、WATERPROOF RATING: CONN:IP67; EU Power Plug: IP44
2、BROWN-L, BLUE-N,YELLOW/GREEN-PE
3、ELECTRICAL PARAMETERS :
WORKING VOLTAGE RATING: 250V
WORKING CURRENT RATING CABLE 16A
RESISTANCE VOLTAGE: AC 2000V 20mA 1 Minute
CONDUCTOR RESISTANCE: 7.98Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL	APsystems ALTENERGY POWER
1~10:±1	11~30:±2		
31~50:±3	51~200:±5		NAME
200~400:±7	>401:±10		EU Power Cord(Y3,2.5mm²,H07,4m)
	ANGLES:±1°		
DWN.		UNIT mm	DRAWING NO.
CHK.		SHEET -- OF -- REV.	

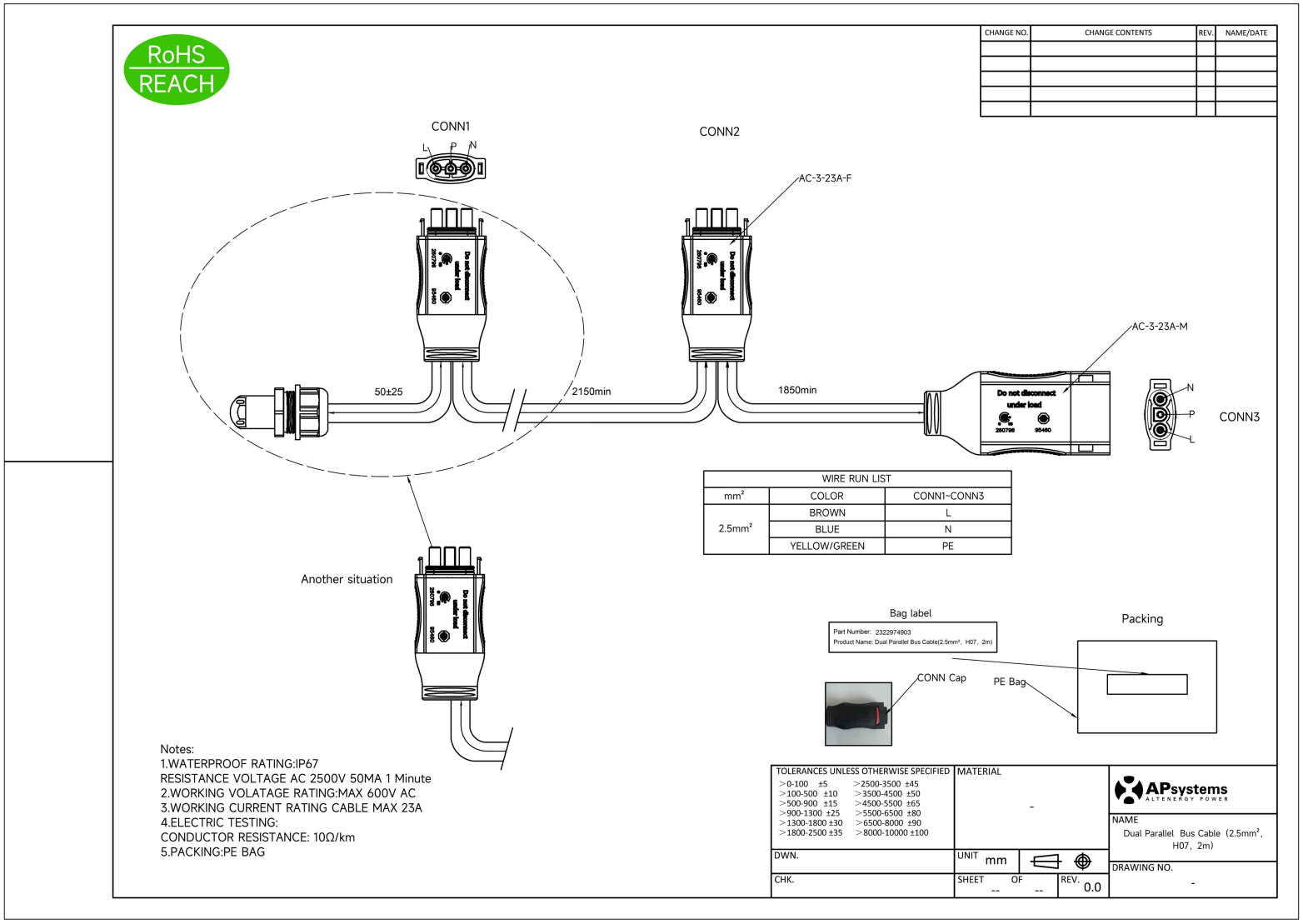
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2337023432_EU Power Cord(Y3,2.5mm²,H07,10m)

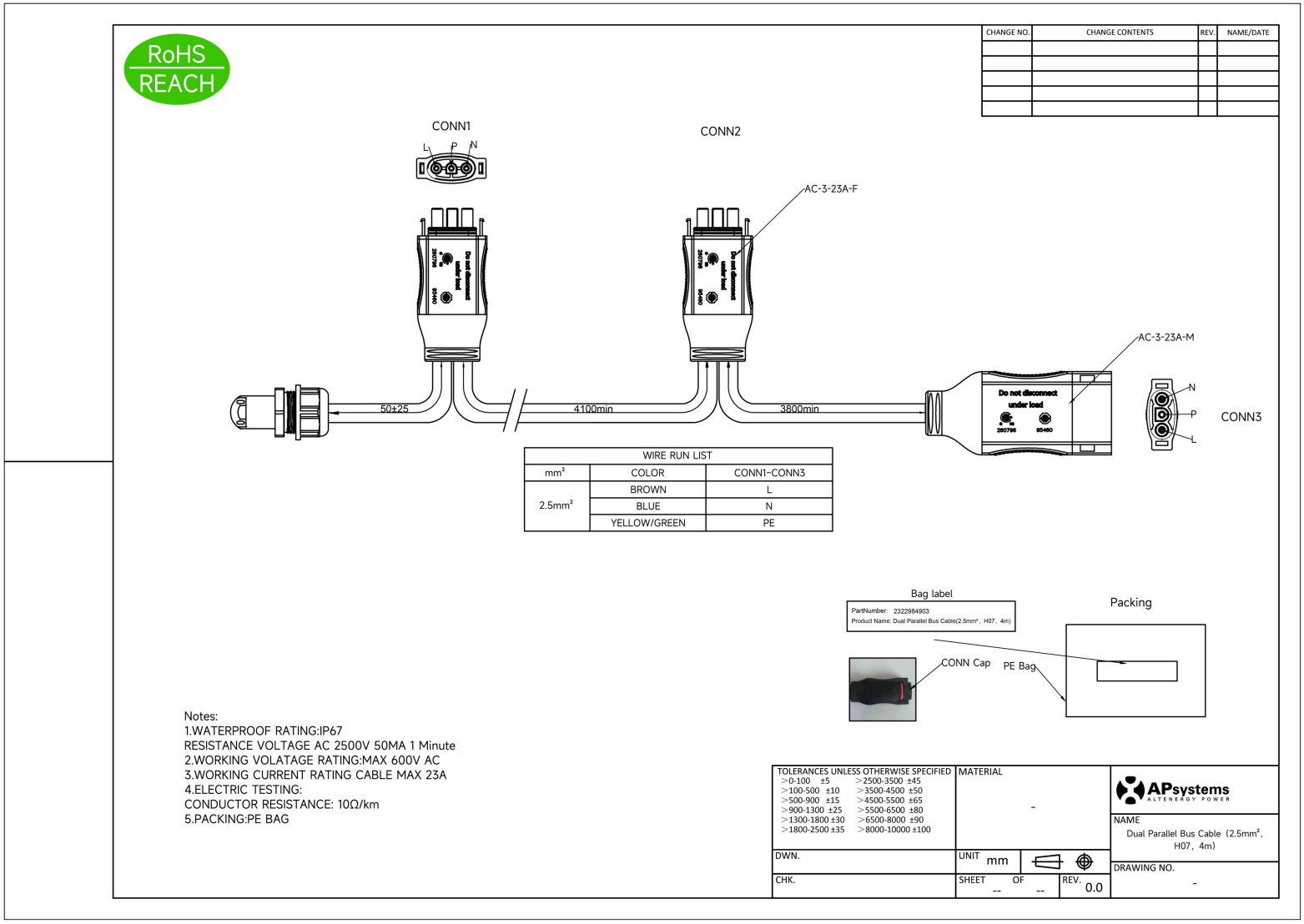


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2322974903_Dual Parallel Bus Cable(2.5mm2,H07,2m)

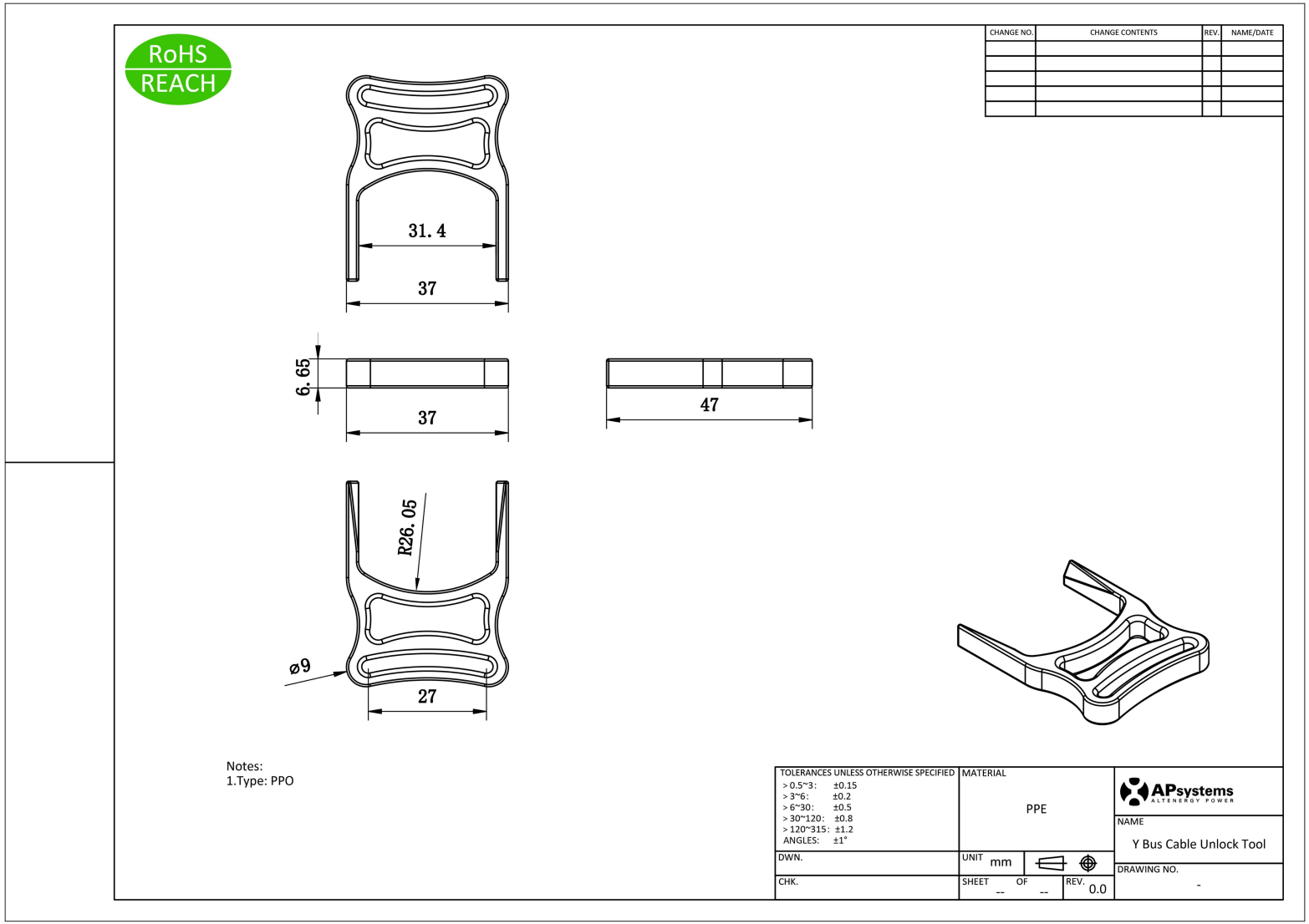


2322984903_Dual Parallel Bus Cable(2.5mm2,H07,4m)



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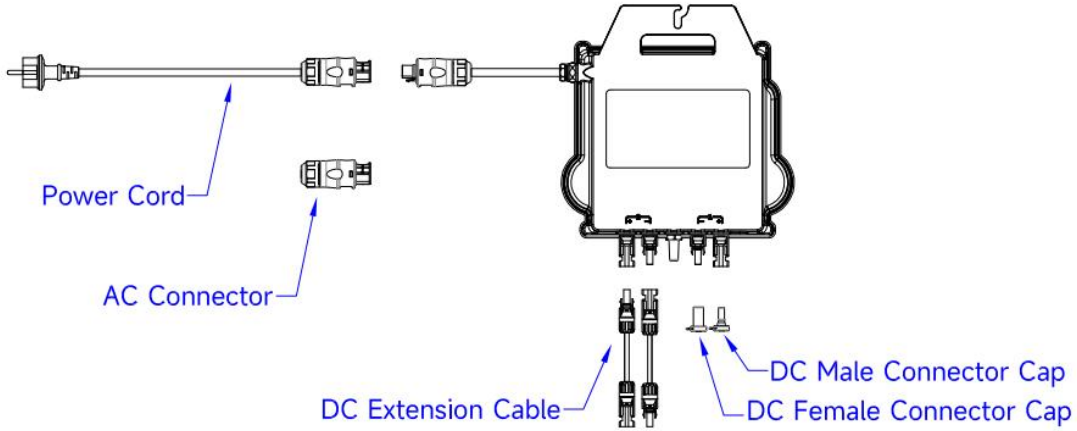
Y Bus Cable Unlock Tool



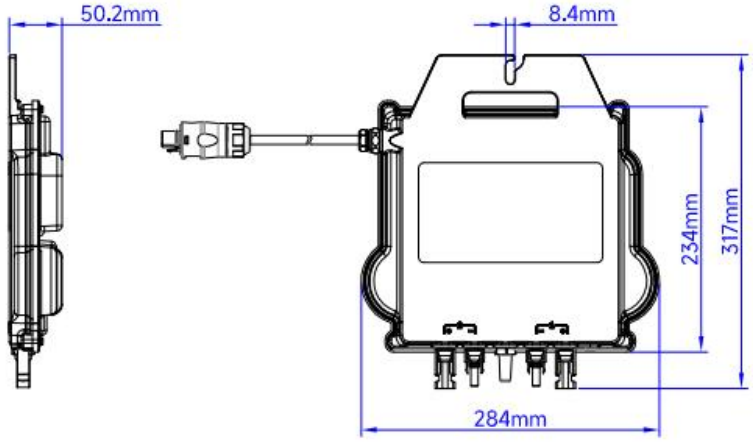
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EZ1D Series Accessories(BC01)

1. Wiring Diagram



2. EZ1D Dimensions



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3. Accessories Summary

Region	Accessories				
	EU Power Cord (Optional)	**AC Connector (Female)** (Optional)	**DC Male Connector Cap** (Optional)	**DC Female Connector Cap** (Optional)	**DC Extension Cable** (Optional)
Europe -EU(141068)	2337041134_EU Power Cord(1.5mm^2,BC01,H07,5m) (See Pic. A1)	2301632304_AC Connector(BC01,3C,Female) (See Pic. B)	2060401006_DC Male Connector Cap (MC4) (See Pic. C)	2060402006_DC Female Connector Cap (MC4) (See Pic. D)	2310360214_2m DC Extension Cable (MC4) (See Pic. E)

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

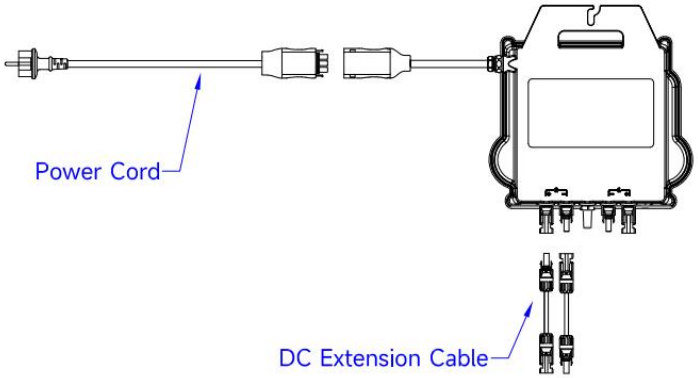
4. Physical Picture

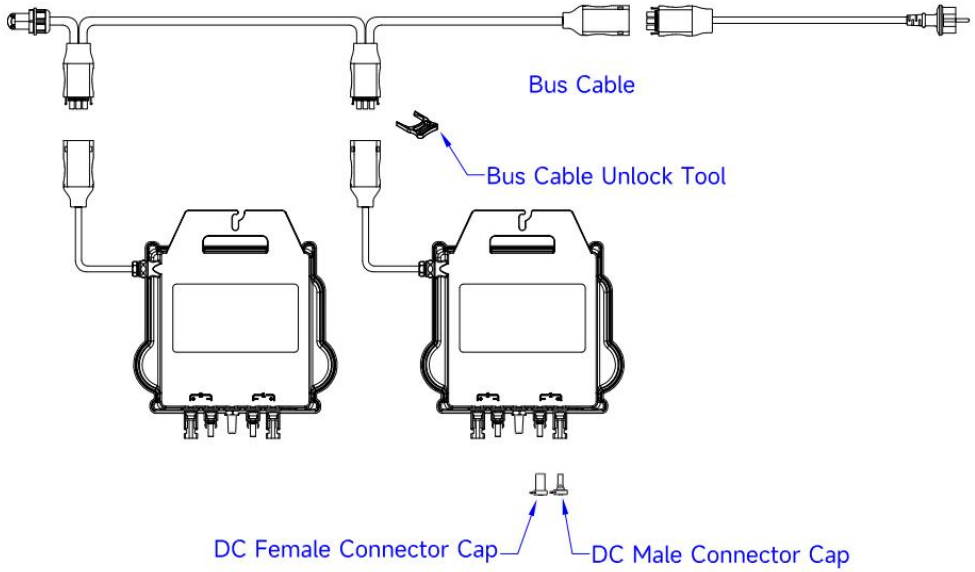
EU Power Cord	AC Connector	DC Male Connector Cap	DC Female Connector Cap	DC Extension Cable
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

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EZ1D Series Accessories(Y3)

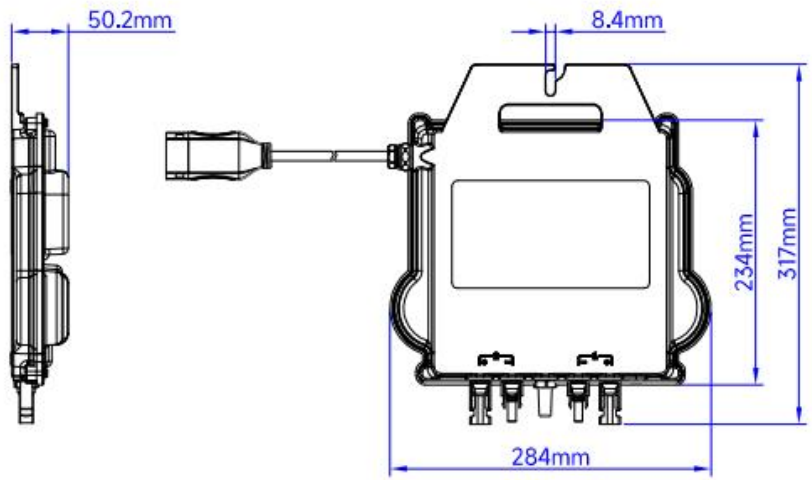
1. Wiring Diagram





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2.EZ1D Dimensions



3.Accessories Summary

Region	Accessories					
	Power Cord (Mandatory)	**Bus Cable** (Optional)	**Unlock Tool** (Supply)	**DC Male Connector Cap** (Optional)	**DC Female Connector Cap** (Optional)	**DC Extension Cable** (Optional)
Europe	2337023232_EU Power Cord(Y3,2.5mm²,H07,4m) (See Pic. A) 2337023332_EU Power Cord(Y3,2.5mm²,H07,1m) (See Pic. A) 2337023432_EU Power Cord(Y3,2.5mm²,H07,10m) (See Pic. A)	2322974903_Dual Parallel Bus Cable(2.5mm2,H07,2m) (See Pic. B) 2322984903_Dual Parallel Bus Cable(2.5mm2,H07,4m) (See Pic. B)	Y Bus Cable Unlock Tool (See Pic. C)	2060401006_DC Male Connector Cap (MC4) (See Pic. D)	2060402006_DC Female Connector Cap (MC4) (See Pic. E)	2310360214_2m DC Extension Cable (MC4) (See Pic. F)

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs

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4. Physical Picture

Power Cord	Bus Cable	Unlock Tool	DC Male Connector Cap	DC Female Connector Cap
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

DC Extension Cable
 Pic. F

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Revision history		
Version	**Change contents**	**Date**
REV1.0	First edition	2023-04-17
REV1.1	Update the name of power cord	2023-06-16
REV1.2	Update AC connector	2023-06-29
REV1.3	Update all drawings	2023-07-24
REV1.4	UpdateEZ1(EP030),add EZ1(BC01),EZ1(Y3)	2023-09-21
REV1.5	Update the connector name， EZ1(Y3) add Article No. and Unlock Tool	2024-01-24
REV1.6	Update article No. and wiring diagram	2024-01-30
REV1.7	Add EZ1D	2024-07-31

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