



APsystems EZ1&EZ1D (EMEA) Accessories

Rev 1.7

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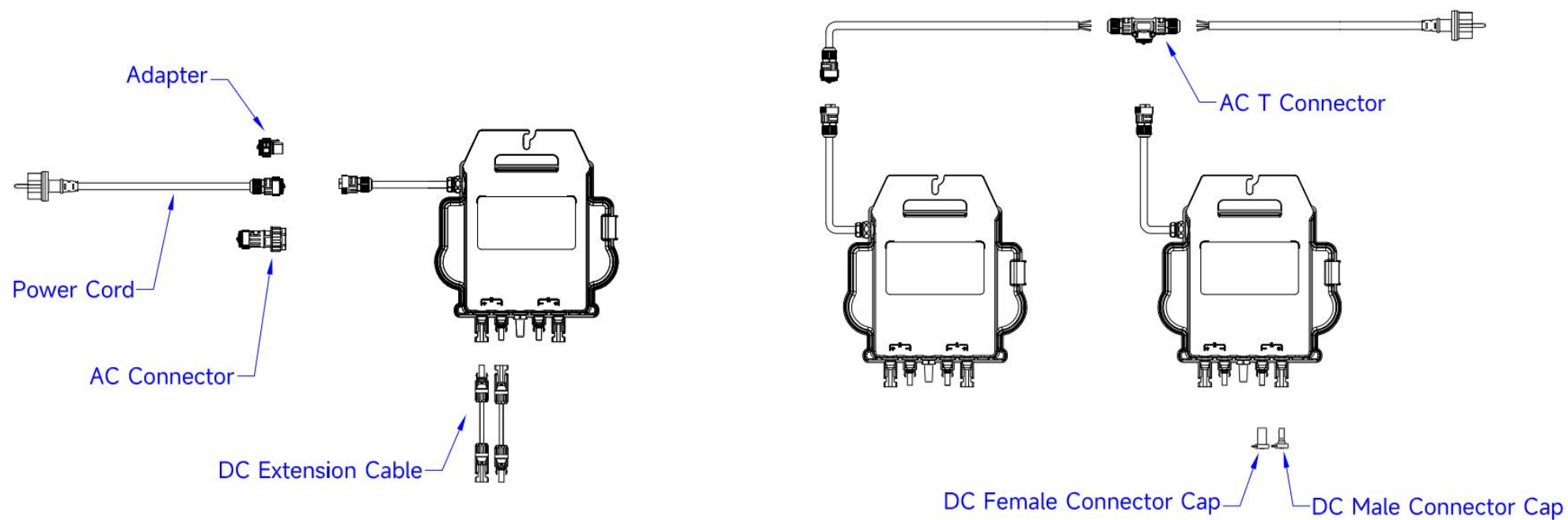
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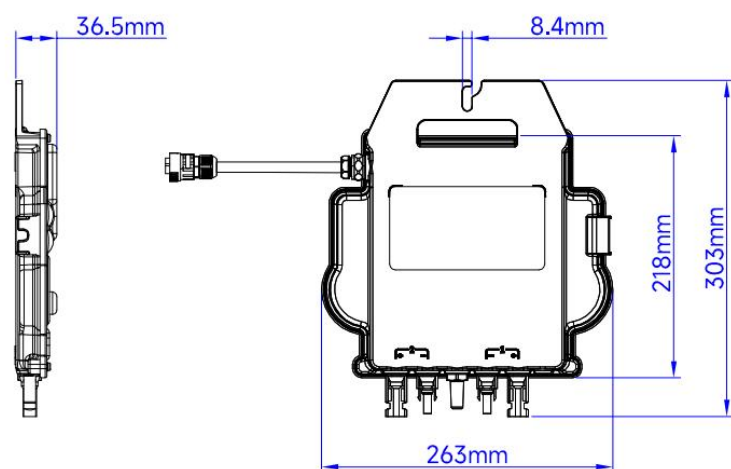
EZ1 Series Accessories (EP030)

1. Wiring Diagram

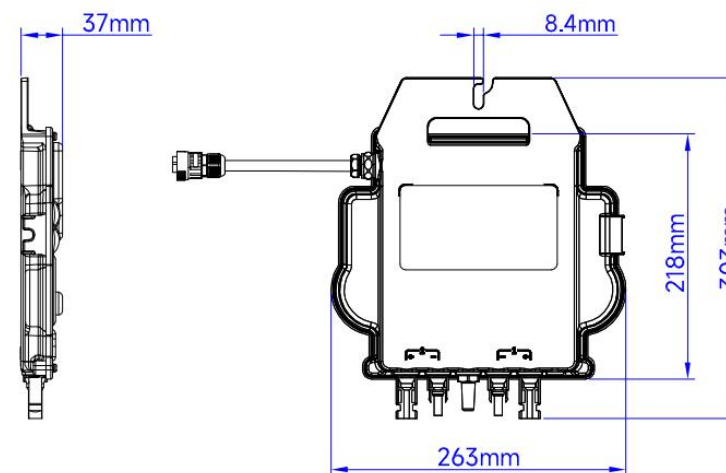


2. EZ1 Dimensions

EZ1-S/EZ1-M



EZ1-H



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.

4. Physical Picture

Power Cord	AC Connector	ACT 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			

5. Accessories information

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

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

①
Packing

Label

WIRE RUN LIST			
WIRE	P1	P2	
BROWN	L	L	
BLUE	N	N	
YELLOW/GREEN	PE	PE	

Notes:

1.Cable: 3G1.5mm², UV resistance;

2.The cable and connector connect firmly, has no looseness, scratches, crack and other defects

NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
3	Plug			1	Schuko Plug	
2	AC Cable			1	3G1.5mm ² , Brown-Blue-Yellow/Green	
1	AC Connector (Female)	EP030-2224-00		1	17.5A, IP68	

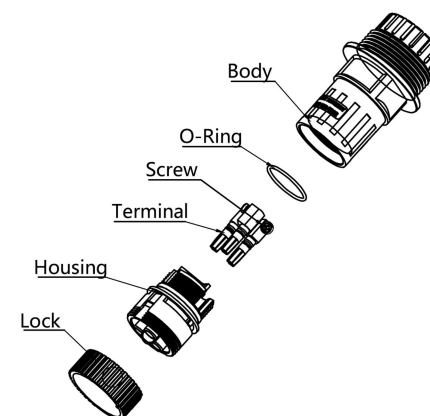
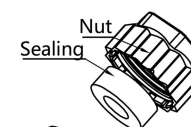
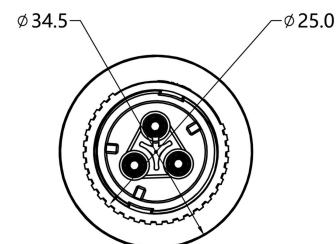
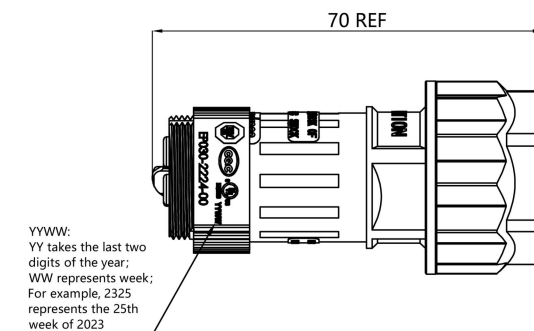
TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL	APsystems ALTENERGY POWER NAME EU Power Cord(EP030,1.5mm², H07,5m) DRAWING NO.
公差: 0-100 ±5 >100-500 ±10 >500-900 ±15 >900-1300 ±25 >1300-1800 ±30 >1800-2500 ±35	公差: 2500-3500 ±45 >3500-4500 ±50 >4500-5500 ±65 >5500-6500 ±80 >6500-8000 ±90 >8000-10000 ±100	-	

DWN.	UNIT	mm	
CHK.	SHEET	OF	
	REV.		

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



CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



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;

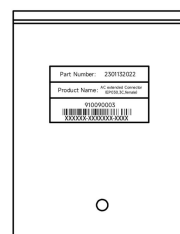
Environmental:

- 1.Waterproof Rate : IP68 1m-1H;
- 2.Application Temperature :-40°C~+85°C;
- 3.Flammng 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

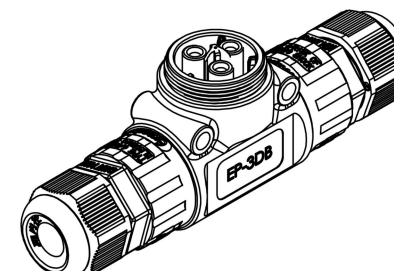
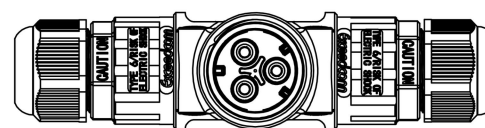
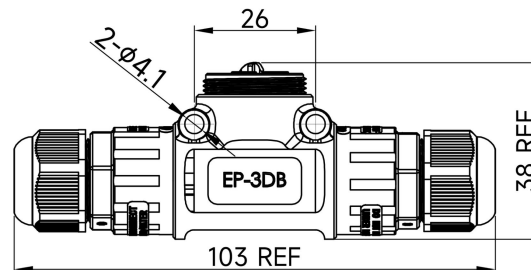
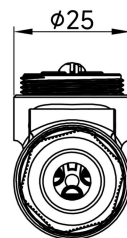


TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL		 NAME AC Extended Connector (EP030,3C,female)
X.: ±0.50	X": ±3.00°			
.X: ±0.30	.X": ±2.00°			
.XX: ±0.20	.XX": ±1.00°			
.XXX: ±0.10	.XXX": ±0.50°			
DWN.	UNIT mm			
CHK.	SHEET OF		REV.	DRAWING NO.

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

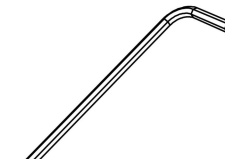
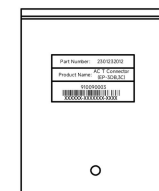
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



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;

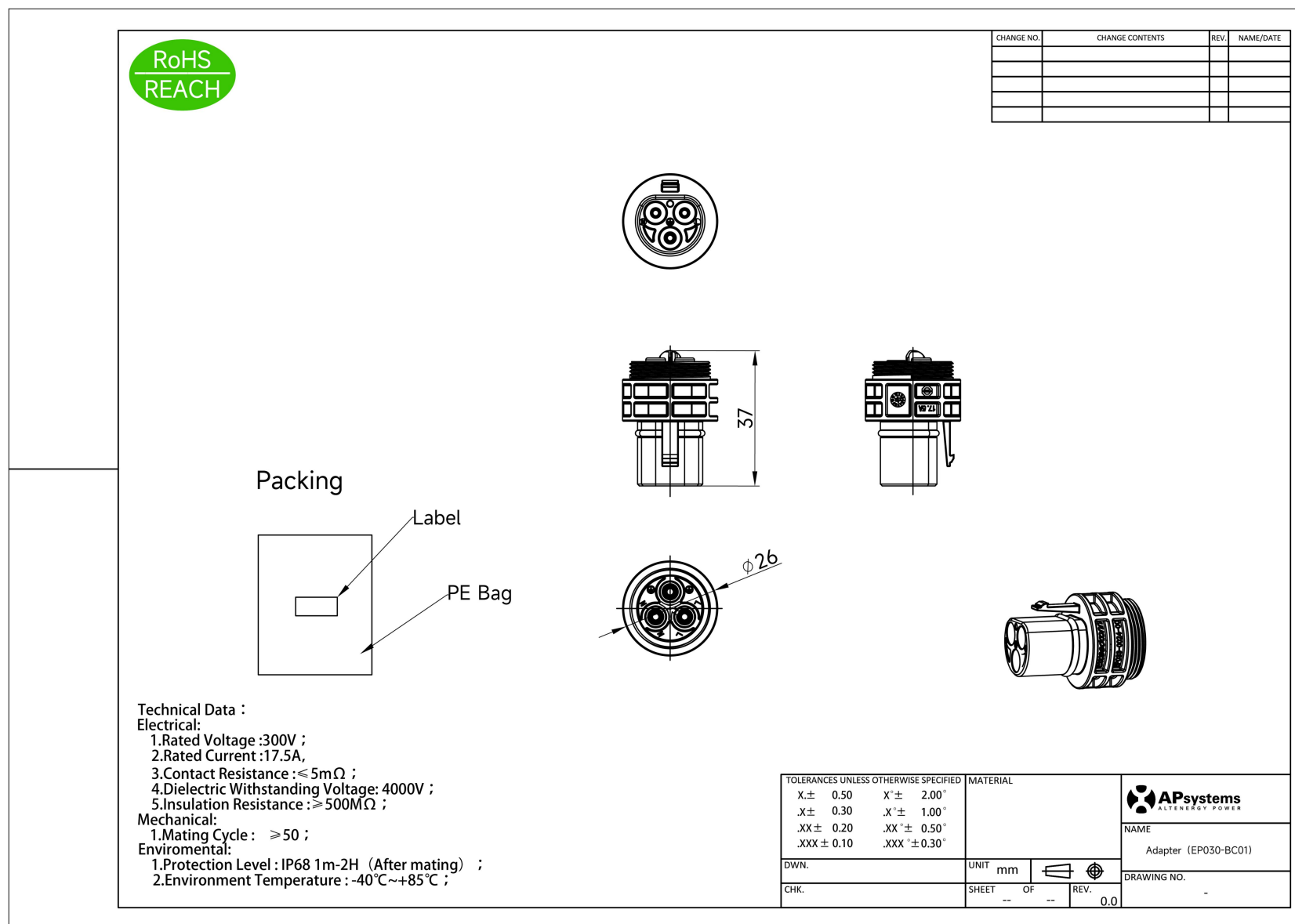
Environmental:

1. Waterproof Rate: IP68;
2. Application Temperature: -40°C~+85°C;
3. Flaming Level: UL94-V0;

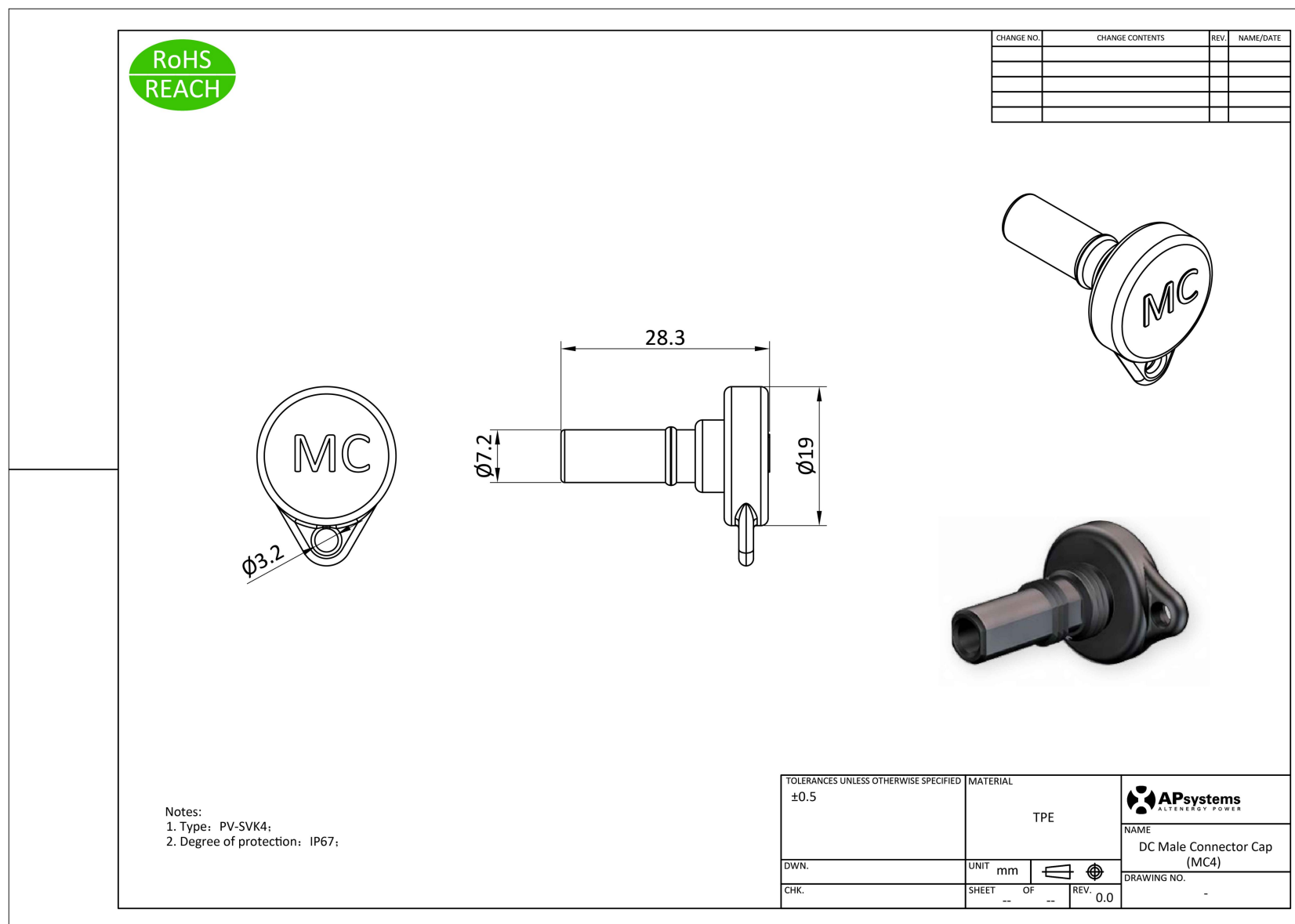
Others:

1. Type No.: EP-3DB;

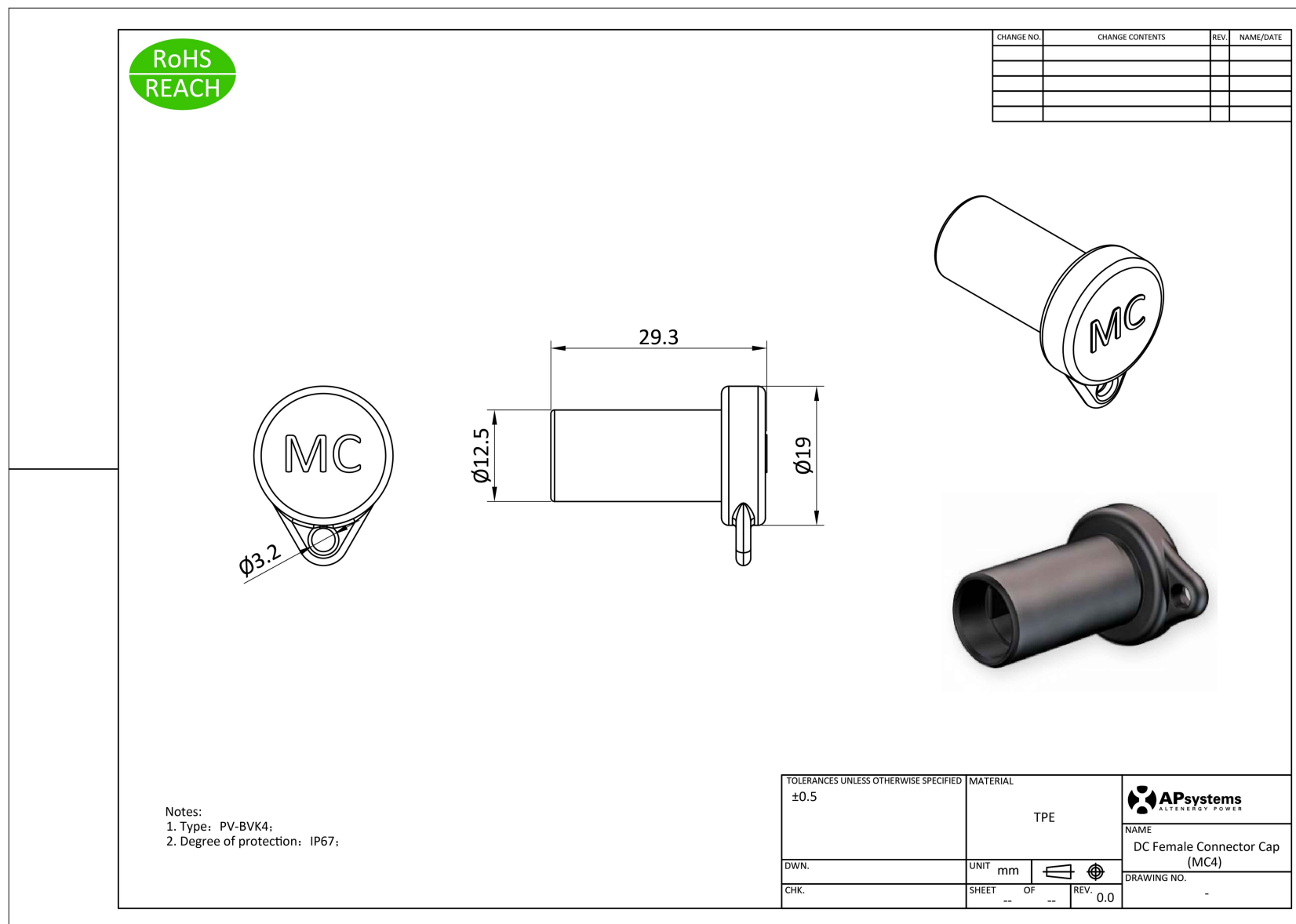
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		 APsystems ALTERNERGY POWER
X.:	±1.00	X*:	±3.00°			
.X:	±0.50	.X*:	±2.00°			
.XX:	±0.20	.XX*:	±1.00°			
.XXX:	±0.10	.XXX*:	±0.50°	UNIT mm		NAME AC T Connector(EP-3DB,3C)
DWN.				SHEET -- OF --		DRAWING NO.
CHK.				REV.		



2060401006_DC Male Connector Cap (MC4)



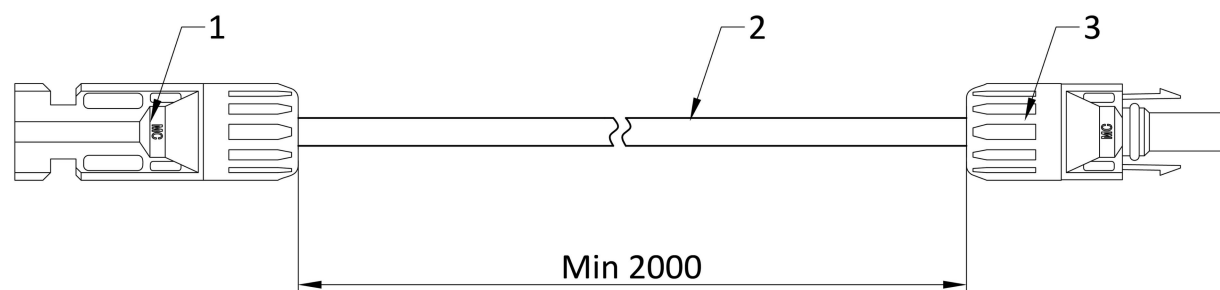
2060402006_DC Female Connector Cap (MC4)



2310360214_2m DC Extension Cable (MC4)

RoHS
REACH

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



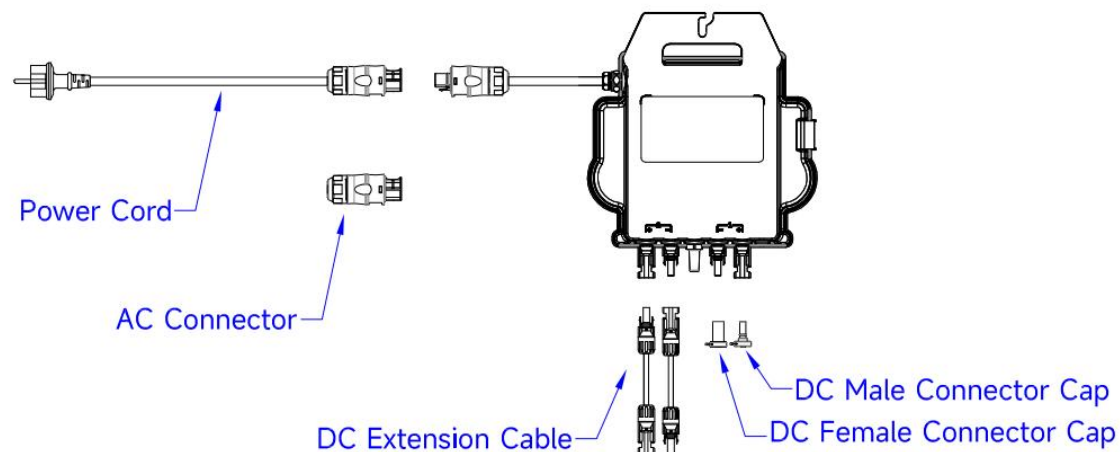
Notes:

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

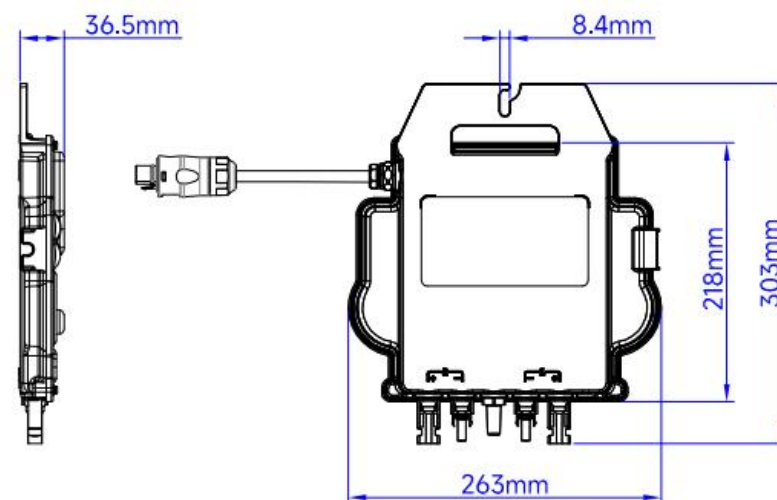
	3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI			
①	2	DC Cable	FLEX-SOL-EVO-DX 4.0		1	4.0mm ² , TUV/UL certification			
			62930 IEC 131/PV		1	4.0mm ² /12AWG, TUV/UL certification	Alternative		
	1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI			
NO.		NAME		TYPE		MAT.	QTY.	DESCRIPTION	REMARK
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		 APsystems ALTERNERGY POWER NAME 2m DC Extension Cable (MC4) DRAWING NO.			
>0-100	±5	>2500-3500 ±45							
>100-500	±10	>3500-4500 ±50							
>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				
CHK.				SHEET	OF	REV.	0.2		

EZ1 Series Accessories (BC01)

1. Wiring Diagram



2. EZ1 Dimensions



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

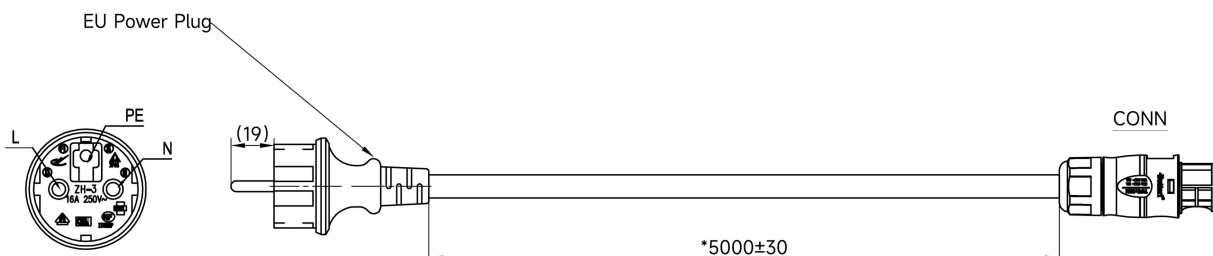
EU Power Cord	AC Connector	DC Male Connector Cap	DC Female Connector Cap	DC Extension Cable
 Pic. A	 Pic. B	 Pic. C	 Pic. D	 Pic. E

5. Accessories information

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



CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



WIRE RUN LIST			
mm ²	CONN	COLOR	EU power plug
1.5	L	BROWN	L
	N	BLUE	N
	PE	YELLOW/GREEN	PE

Note:

- CABLE PRINTING : ◀VDE▶ H07RN-F 3G1.5mm² WUXI ZHONGHUI WIRE & CABLE CO.,LTD
CCC A005618 60245 IEC 66(YCW) 450/750V 3×1.5mm²
- WATERPROOF RATING: CONN:IP67 EU Power Plug: IP44
- WIRING:BROWN-L, BLUE-N,YELLOW/GREEN-PE
- ELECTRICAL PARAMETERS :
WORKING VOLTAGE RATING: 250V
WORKING CURRENT RATING CABLE 16A
RESISTANCE VOLTAGE: AC 2500V 10mA 1 Minute
CONDUCTOR RESISTANCE: 13.3Ω/km 20C°

Bag label

Part Number : 2337041134
 Product Name:EU Power Cord (1.5mm²,BC01,H07,5m)

Packing:

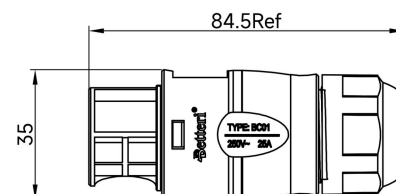
PE Bag

TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL		 APsystems ALTENERGY POWER
1-10:±1 31-50:±3 200-400:±7	11-30:±2 51-200:±5 > 401:±10 ANGLES:±1°			
DWN.	UNIT mm		NAME EU Power Cord(1.5mm ² ,BC01,H07,5m)	
CHK.	SHEET -- OF --	REV.	DRAWING NO.	

2301632304_AC Connector(BC01,3C,Female)



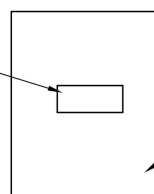
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



Lable

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

Packing



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:

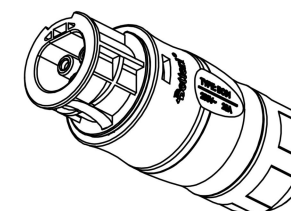
1. Mating Cycle: ≥500 times;
- 2.Cable O.D: 10~13mm;

Environmental performance:

1. Waterproof rating: IP68 1m-60min(After mating);
2. Operating Temperature: -40°C~+85°C

Others:

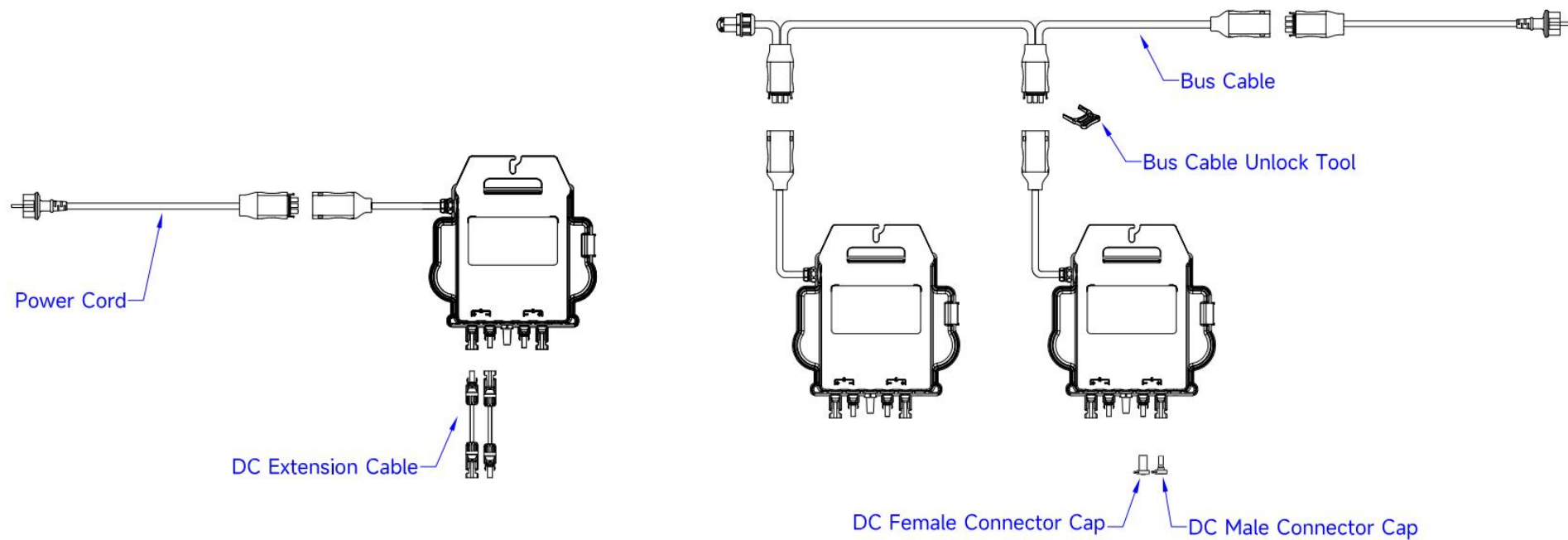
- 1.Type No:BC01-3F22-15



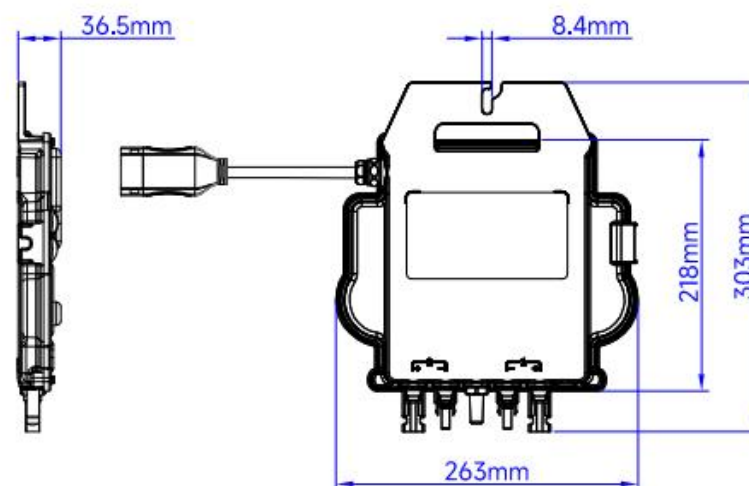
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		 APsystems ALTERNERGY POWER
X.	±3.00	X°	±3.00°	PPO		
.X	±2.00	.X°	±2.00°			
.XX	±1.00	.XX°	±.00°			
.XXX	±0.50	.XXX°	±0.50°			NAME
DWN.				UNIT	mm	 
CHK.				SHEET	OF	
						DRAWING NO.

EZ1 Series Accessories (Y3)

1. Wiring Diagram



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)	2337023232_EU Power Cord(Y3,2.5mm ² ,H07,4m) (See Pic. A)	2322974903_Dual Parallel Bus Cable(2.5mm ² ,H07,2m) (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)
-M-EU(800W) (132070)	2337023332_EU Power Cord(Y3,2.5mm ² ,H07,1m) (See Pic. A)	2322984903_Dual Parallel Bus Cable(2.5mm ² ,H07,4m) (See Pic. B)				
-H-EU (129070)	2337023432_EU Power Cord(Y3,2.5mm ² ,H07,10m) (See Pic. A)					
-SPE(500W) (131073)						

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

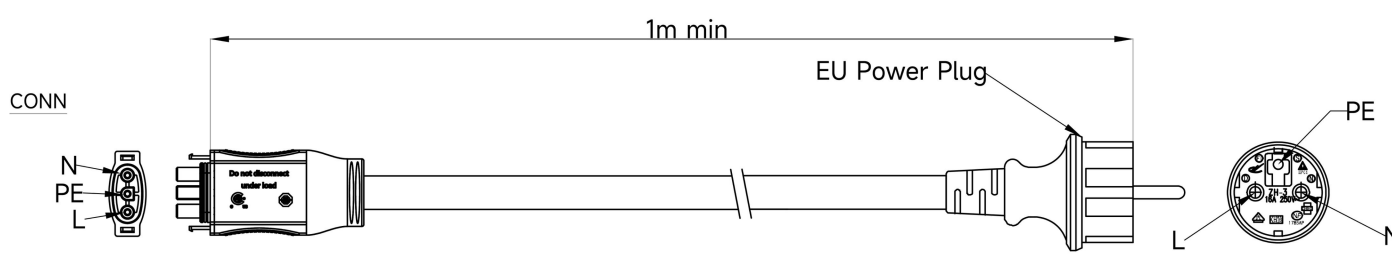
4. Physical Picture

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				

5. Accessories information

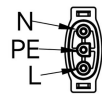
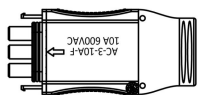
2337023332_EU Power Cord(Y3,2.5mm²,H07,1m)





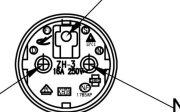
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

CONN

WIRE RUN LIST			
mm ²	CONN	COLOR	EU power plug
2.5	L	BROWN	L
	N	BLUE	N
	PE	YELLOW/GREEN	PE

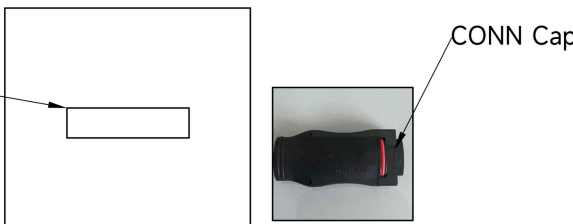
PE



Bag label

Part Number : 2337023332
 Product Name: EU Power Cord(Y3,2.5mm²,H07,1m)

Packing:

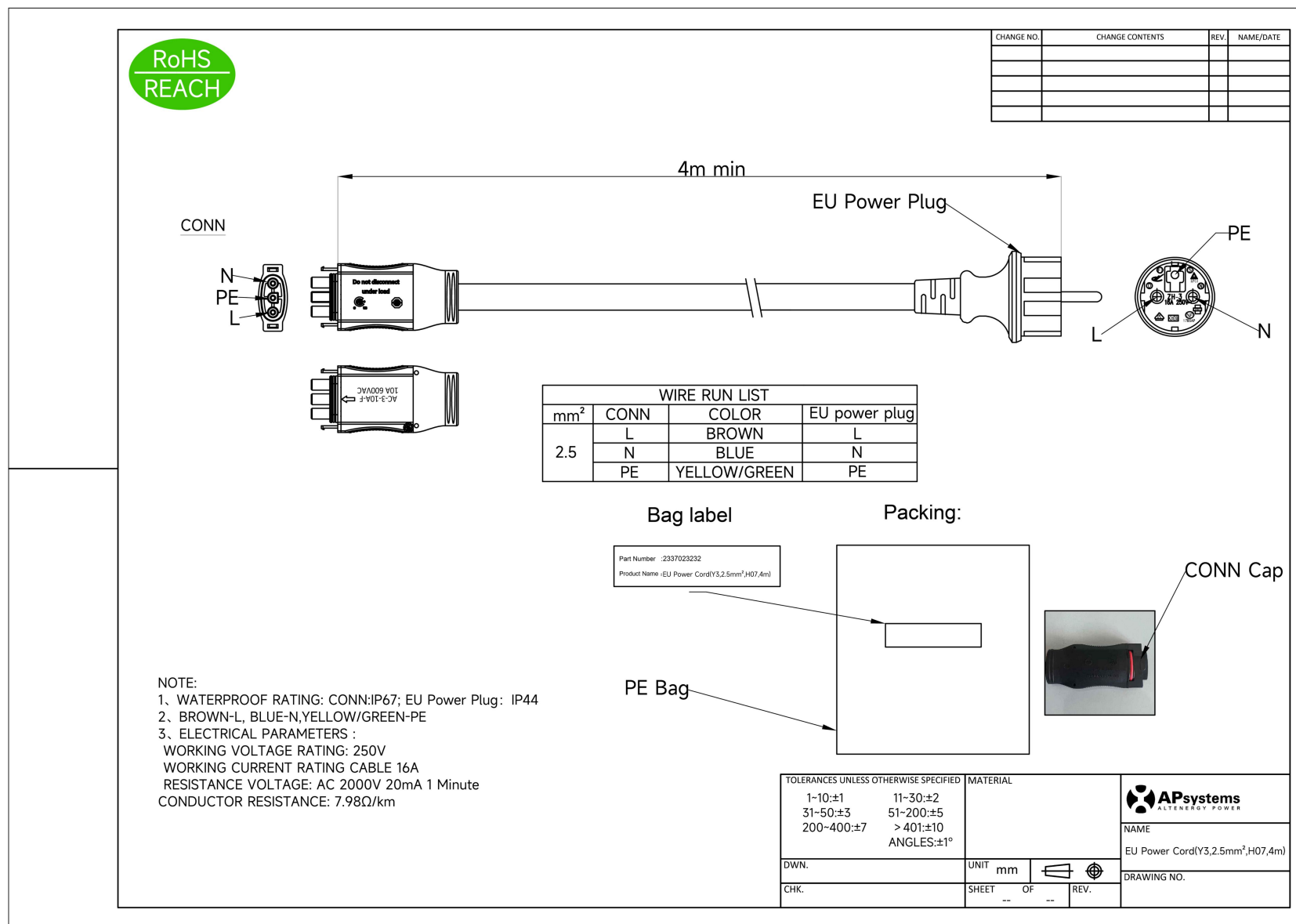


NOTE:

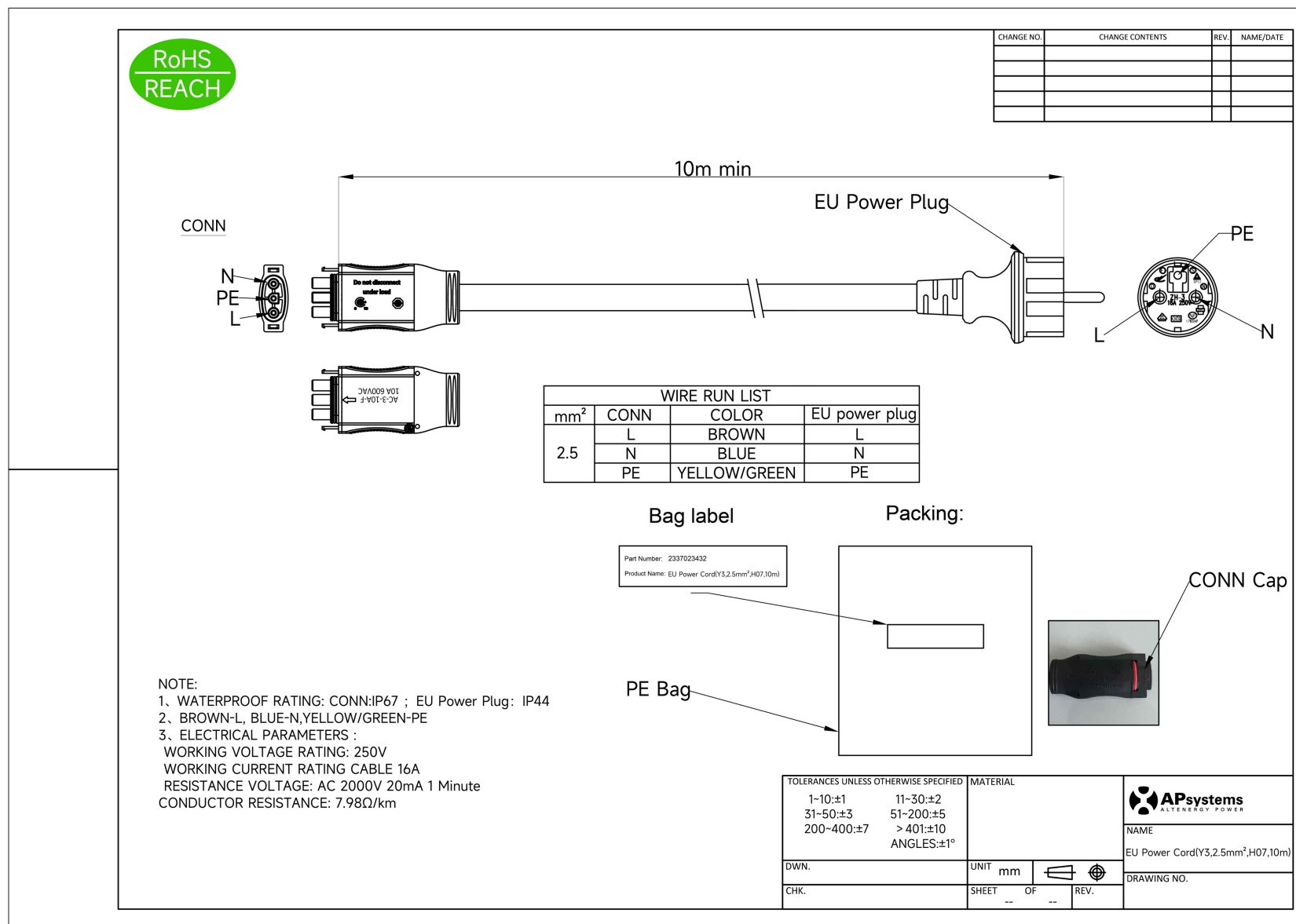
1. WATERPROOF RATING: CONN:IP67; EU Power Plug: IP44
2. BROWN-L, BLUE-N,YELLOW/GREEN-PE
3. ELECTRICAL PARAMETERS :
 WORKING VOLTAGE RATING: 250V
 WORKING CURRENT RATING CABLE 16A
 RESISTANCE VOLTAGE: AC 2000V 20mA 1 Minute
 CONDUCTOR RESISTANCE: 7.98Ω/km

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

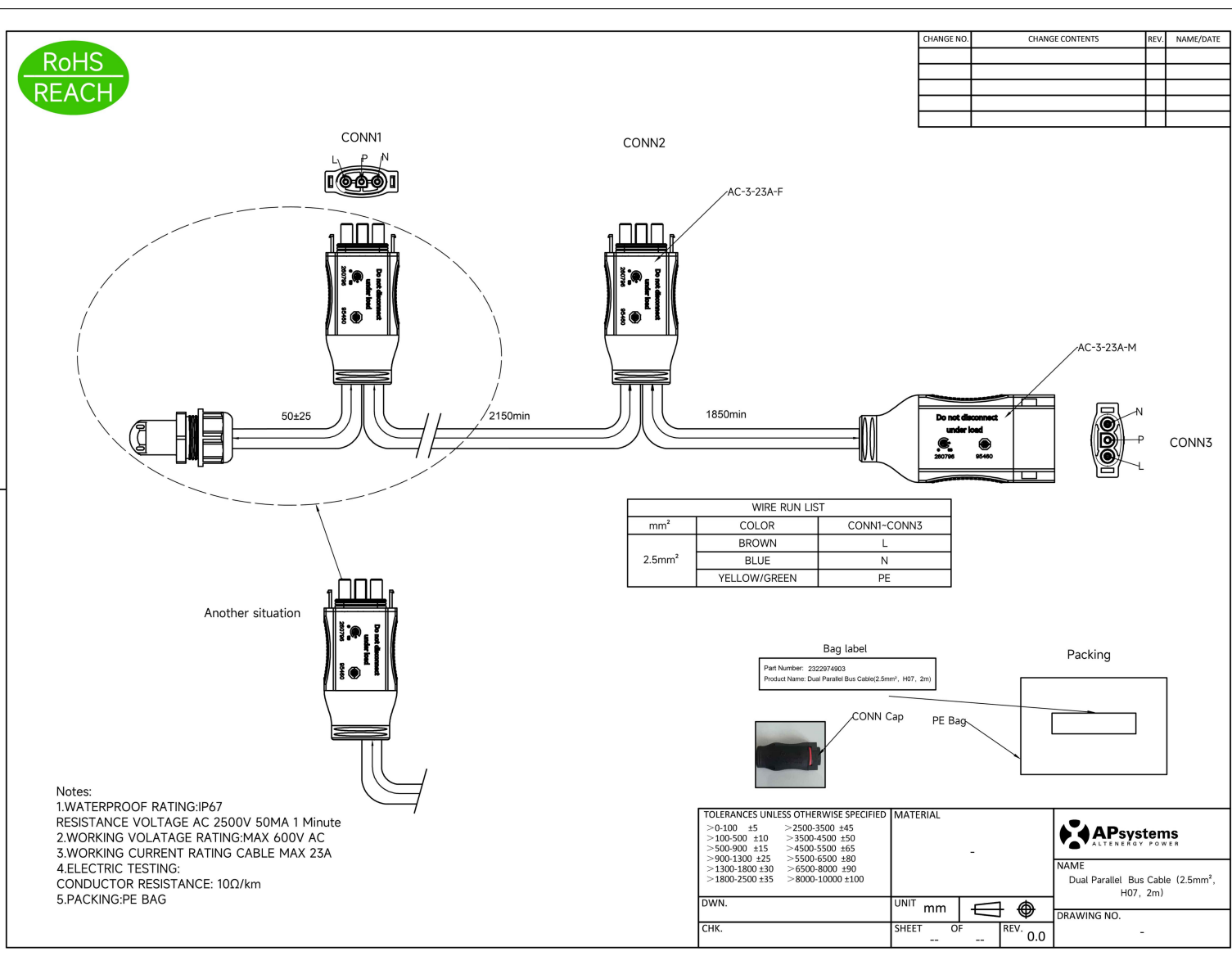
2337023232_EU Power Cord(Y3,2.5mm²,H07,4m)



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



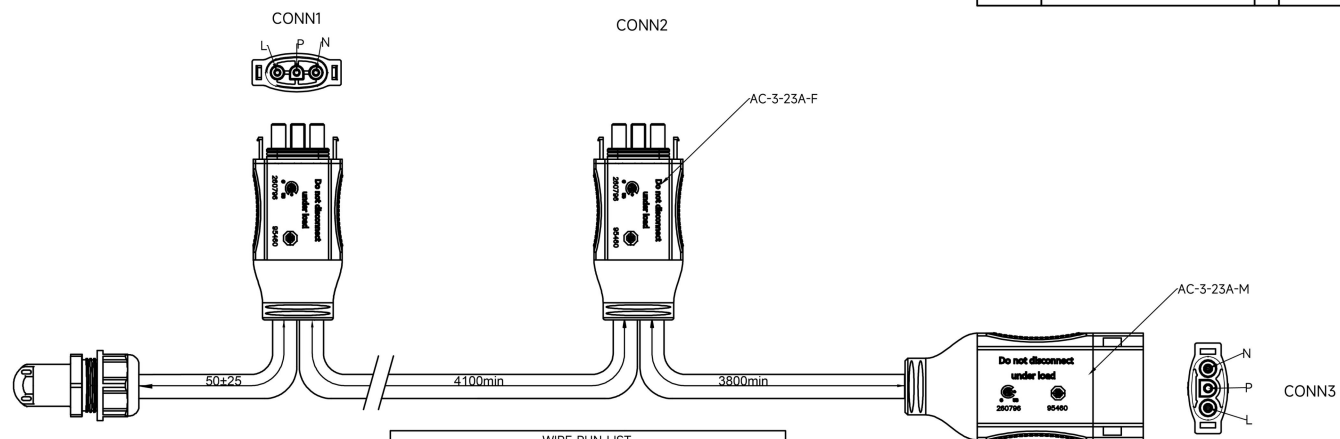
2322974903_Dual Parallel Bus Cable(2.5mm²,H07,2m)



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



CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



WIRE RUN LIST		
mm ²	COLOR	CONN1-CONN3
2.5mm ²	BROWN	L
	BLUE	N
	YELLOW/GREEN	PE

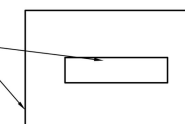
Bag label
PartNumber: 2322984903
Product Name: Dual Parallel Bus Cable(2.5mm², H07, 4m)



CONN Cap

PE Bag

Packing



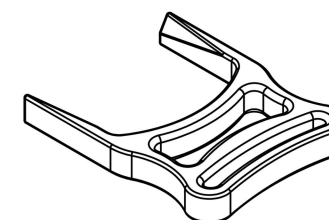
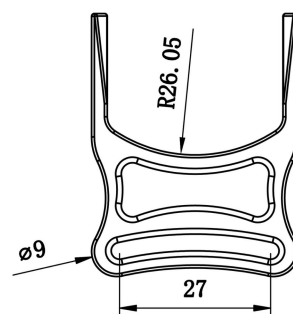
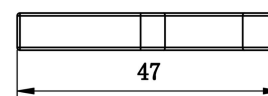
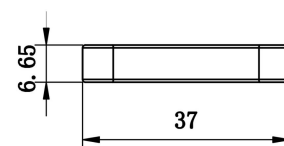
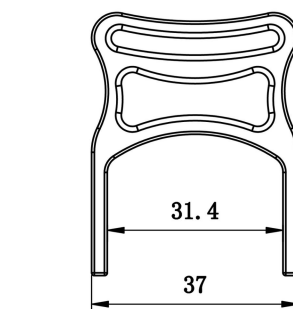
Notes:
1.WATERPROOF RATING:IP67
RESISTANCE VOLTAGE AC 2500V 50MA 1 Minute
2.WORKING VOLTAGE RATING:MAX 600V AC
3.WORKING CURRENT RATING CABLE MAX 23A
4.ELECTRIC TESTING:
CONDUCTOR RESISTANCE: 10Ω/km
5.PACKING:PE BAG

TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL		APsystems ALTENERGY POWER NAME Dual Parallel Bus Cable (2.5mm², H07, 4m) DRAWING NO. -
>0-100 ±5	>2500-3500 ±45	-		
>100-500 ±10	>3500-4500 ±50	-		
>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		
CHK.	SHEET	OF	REV.	0.0

Y Bus Cable Unlock Tool

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

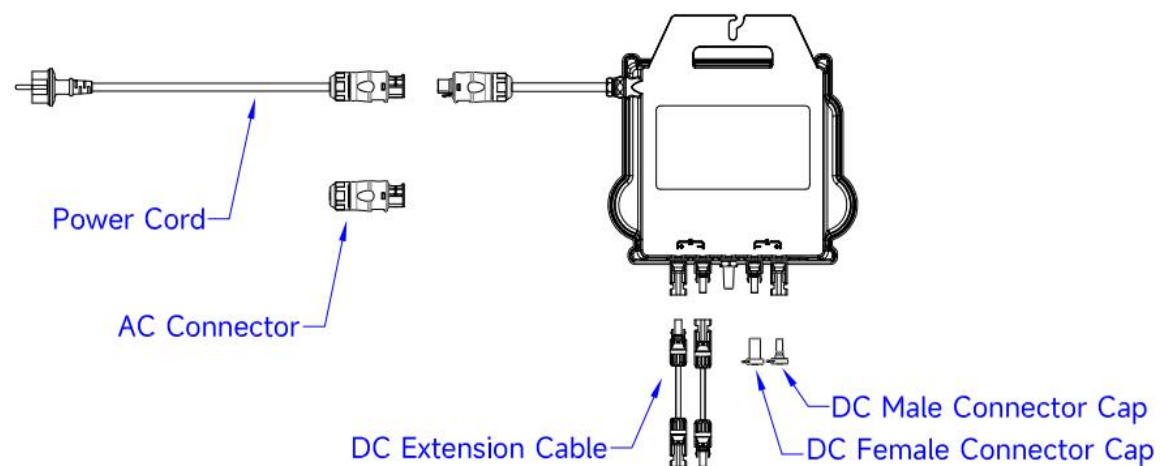


Notes:
1.Type: PPO

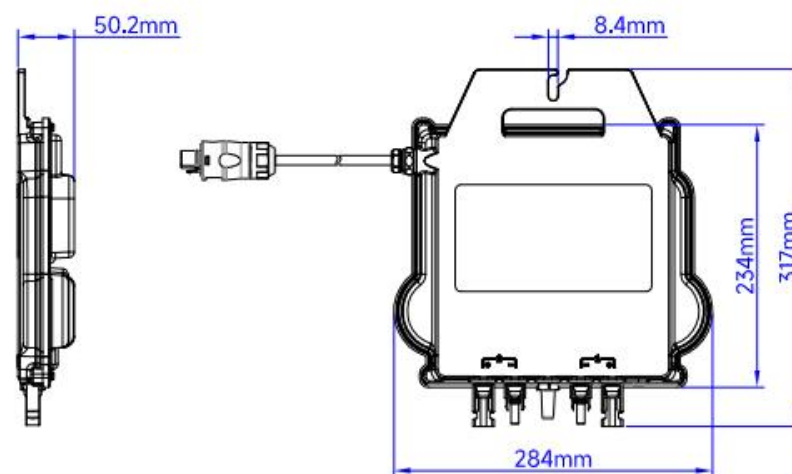
TOLERANCES UNLESS OTHERWISE SPECIFIED > 0.5"3: ±0.15 > 3"6: ±0.2 > 6"30: ±0.5 > 30"120: ±0.8 > 120"315: ±1.2 ANGLES: ±1°	MATERIAL		 NAME Y Bus Cable Unlock Tool
	PPE		
DWN.	UNIT mm		DRAWING NO.
CHK.	SHEET -- OF --	REV. 0.0	-

EZ1D Series Accessories(BC01)

1. Wiring Diagram



2. EZ1D Dimensions



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)

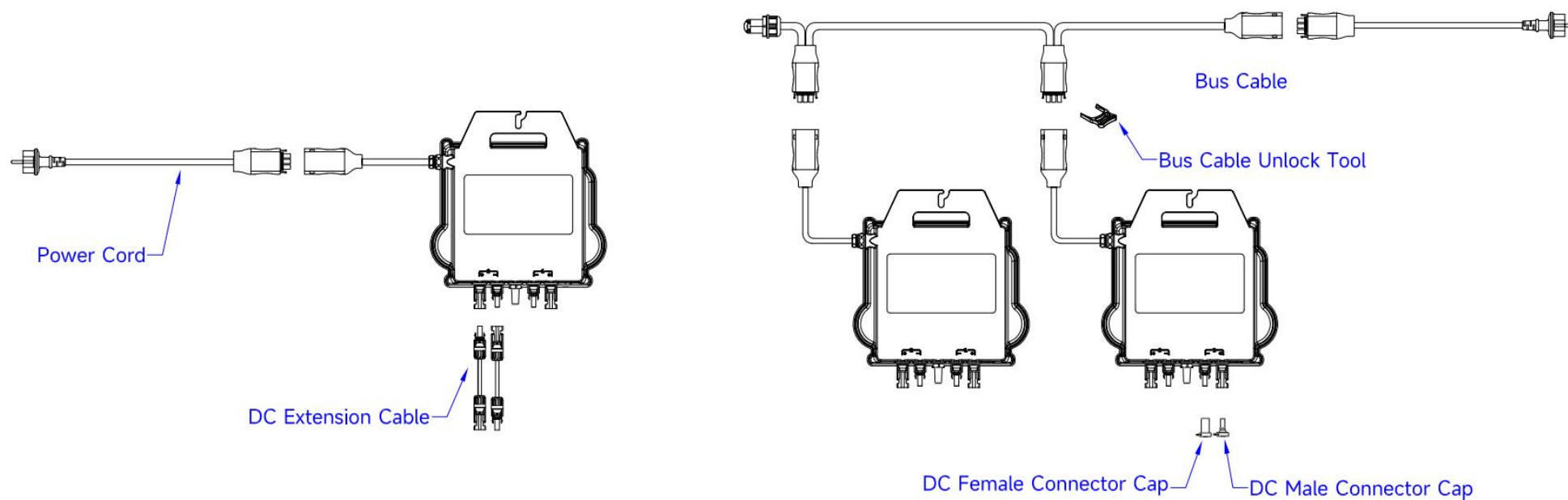
Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

4. Physical Picture

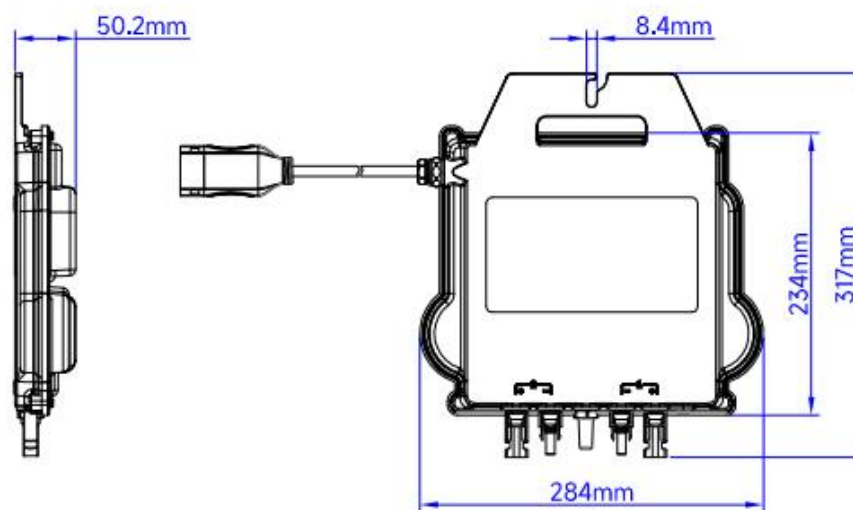
EU Power Cord	AC Connector	DC Male Connector Cap	DC Female Connector Cap	DC Extension Cable
				
Pic. A	Pic. B	Pic. C	Pic. D	Pic. E

EZ1D Series Accessories(Y3)

1. Wiring Diagram



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(Y3,2.5mm ² ,H07,4m) (See Pic. A)	2322974903_Dual Parallel Bus Cable(2.5mm ² ,H07,2m) (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)
	2337023332_EU Power Cord(Y3,2.5mm ² ,H07,1m) (See Pic. A)	2322984903_Dual Parallel Bus Cable(2.5mm ² ,H07,4m) (See Pic. B)				
	2337023432_EU Power Cord(Y3,2.5mm ² ,H07,10m) (See Pic. A)					

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

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				

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