Author: Loki Elfin
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## 0. Installation Dimension

Dimension of necessary hardware including:

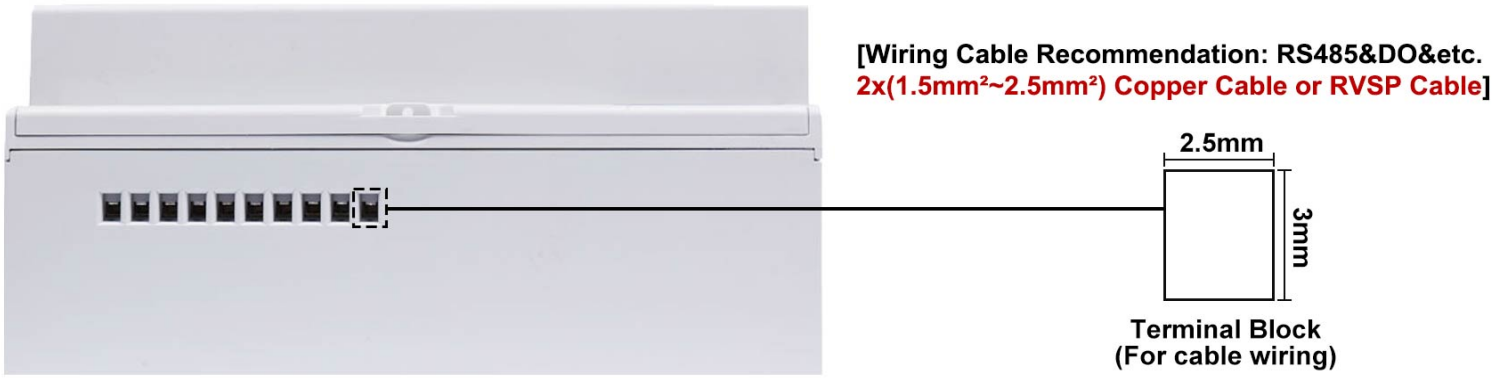
(1) ADL300-EY 3-phase Prepaid&Postpaid Energy Meter (Main Body&Terminal Block/PIN)




(1) Dimension of Main Body of ADL300-EY




(1) Dimension of Power Wiring Terminal Block of ADL300-EY [for direct power wiring]




(1) Dimension of Comms.&DO Terminal Block of ADL300-EY [for RS485&DO Interface Wiring]



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## 1. Wiring Illustration

Only 1 parts of wiring was necessary for wiring of ADL300-EY

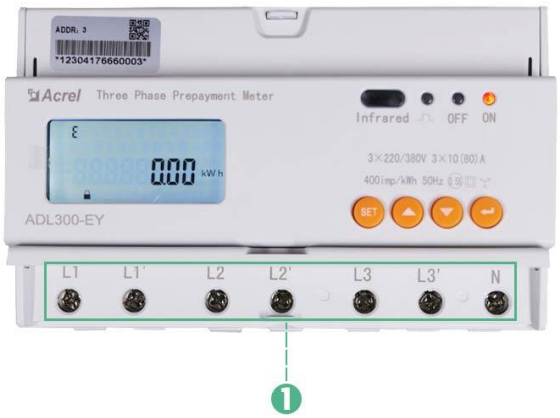
(1) Power Wiring of ADL300-EY [3P3W, direct connect ver.]:

Use PIN L1 & PIN L1' for phase A live line power input&output respectively

Use PIN L2 & PIN L2' for phase B live line power input&output respectively and note that you need to short PIN L2 and PIN N of ADL100-EY.

Use PIN L3 & PIN L3' for phase C live line power input&output respectively

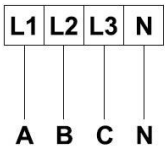
Noted: The installation direction of ADL300-EY must be according to the actual forward current& energy direction.




**1**

**PIN for Current&Voltage Out/Input**

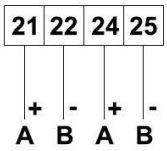
① PIN #L1: Phase A Input
② PIN #L2: Phase B Input
③ PIN #L3: Phase C Input
④ PIN #N: Neutral Output




**2**

**Terminal/PIN for RS485 Interface**

① PIN #21: RS485 Port A+ [1st way]
② PIN #22: RS485 Port B- [1st way]
③ PIN #24: RS485 Port A+ [2nd way]
④ PIN #25: RS485 Port B- [2nd way]



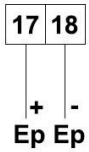




**3**

**Terminal/PIN for Pulse Output**

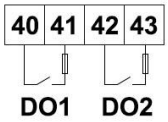
① PIN #17: Positive Pulse Output
② PIN #18: Negative Pulse Output




**4**

**Terminal/PIN for Digital Output**

① PIN #40&41: 1st DO
② PIN #42&43: 2nd DO




PIN Overview of ADL300-EY
[Direct Connect Ver.]



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Use PIN L3 & PIN L3' for phase C live line power input&output respectively

Noted: The installation direction of ADL300-EY must be according to the actual forward current& energy direction.

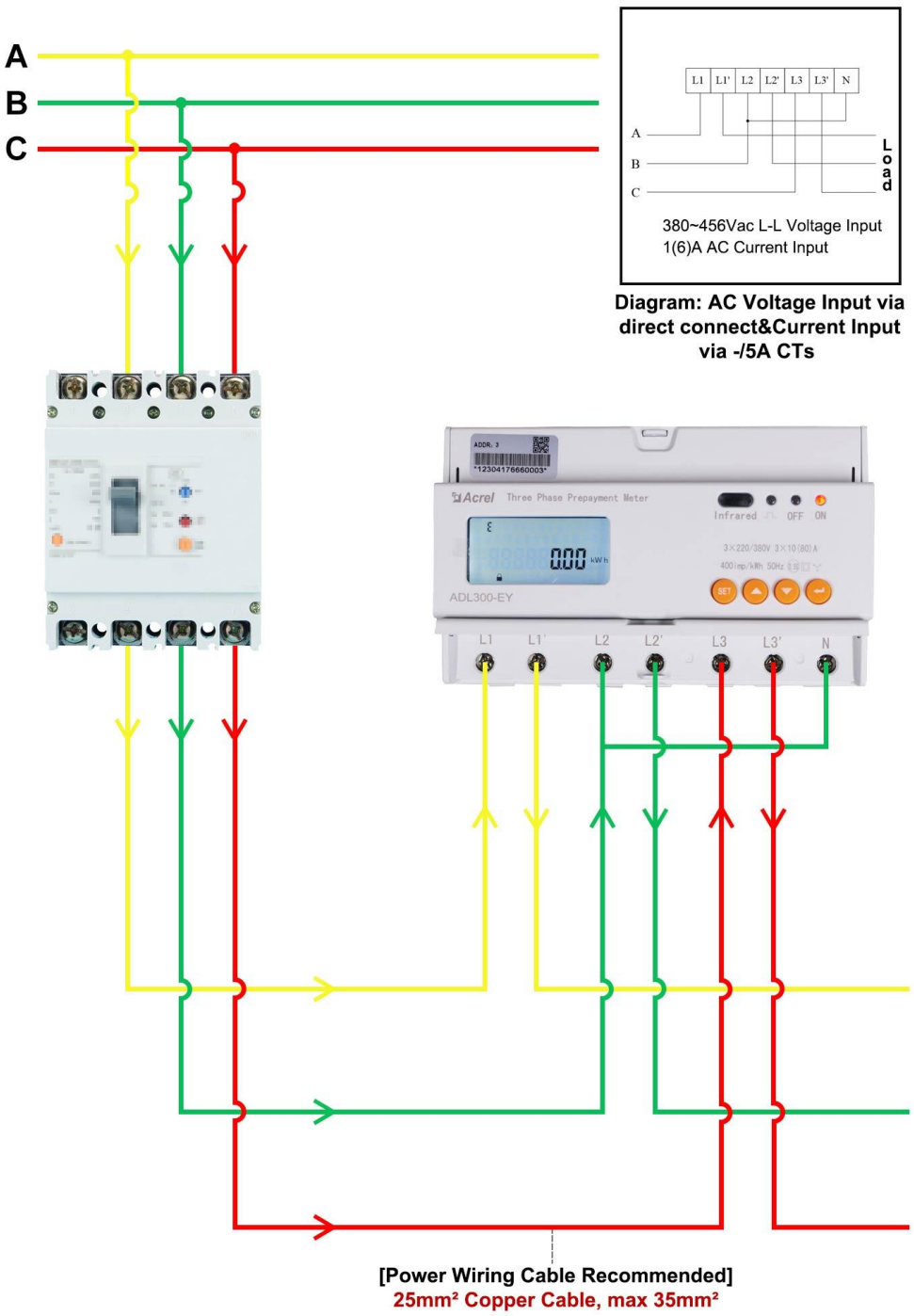



**Diagram: AC Voltage Input via direct connect&Current Input via -/5A CTs**

(1) Power Wiring of ADL300-EY [direct connect ver, 3P4W]



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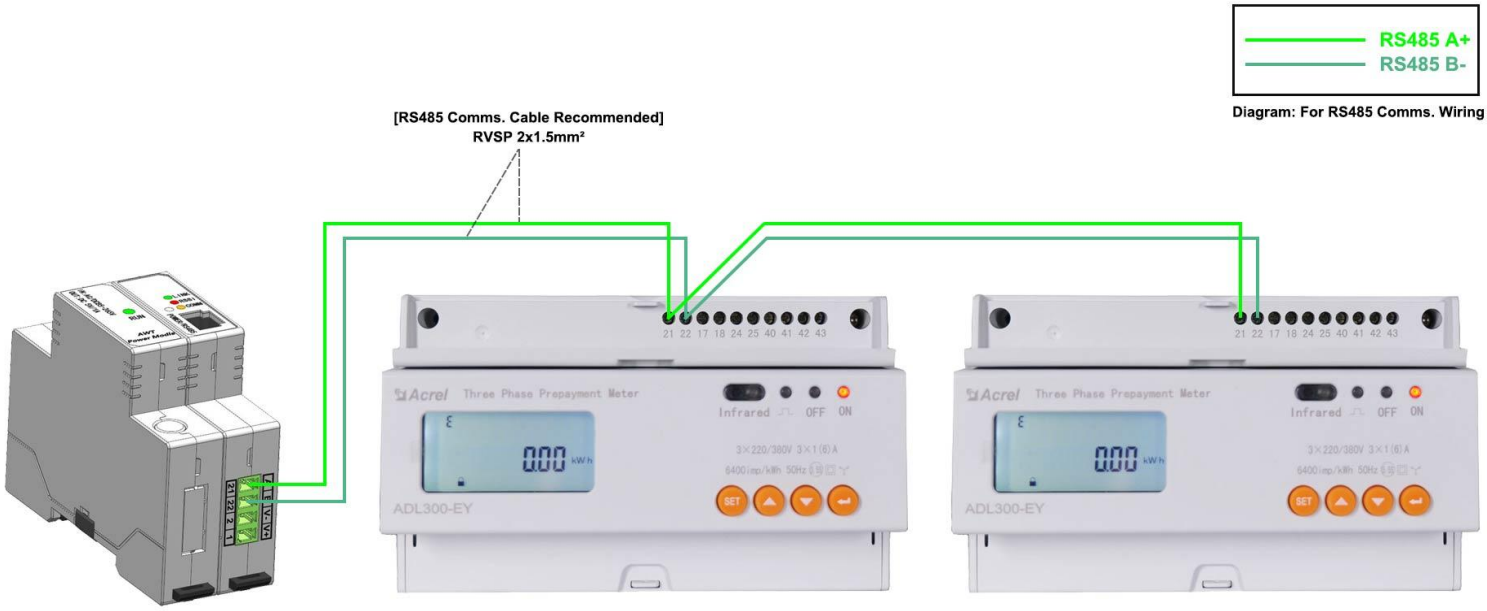
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Website: www.acrel-electric.fr

## 1. Wiring Illustration

(2) RS485 Communnication Wiring between ADL300-EY and upstream devices [Take AWT100 Series IoT Gateway for exmaple]:

PIN 21 of AWT100 connected to PIN 21 of first ADL300-EY to PIN 21 of second ADL300-EY and to PIN 21 of last ADL300-EY.

PIN 22 of AWT100 connected to PIN 22 of first ADL300-EY to PIN 22 of second ADL300-EY and to PIN 22 of last ADL300-EY.




(2) RS485 Communication Wiring between ADL300-EY&AWT100 Series



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