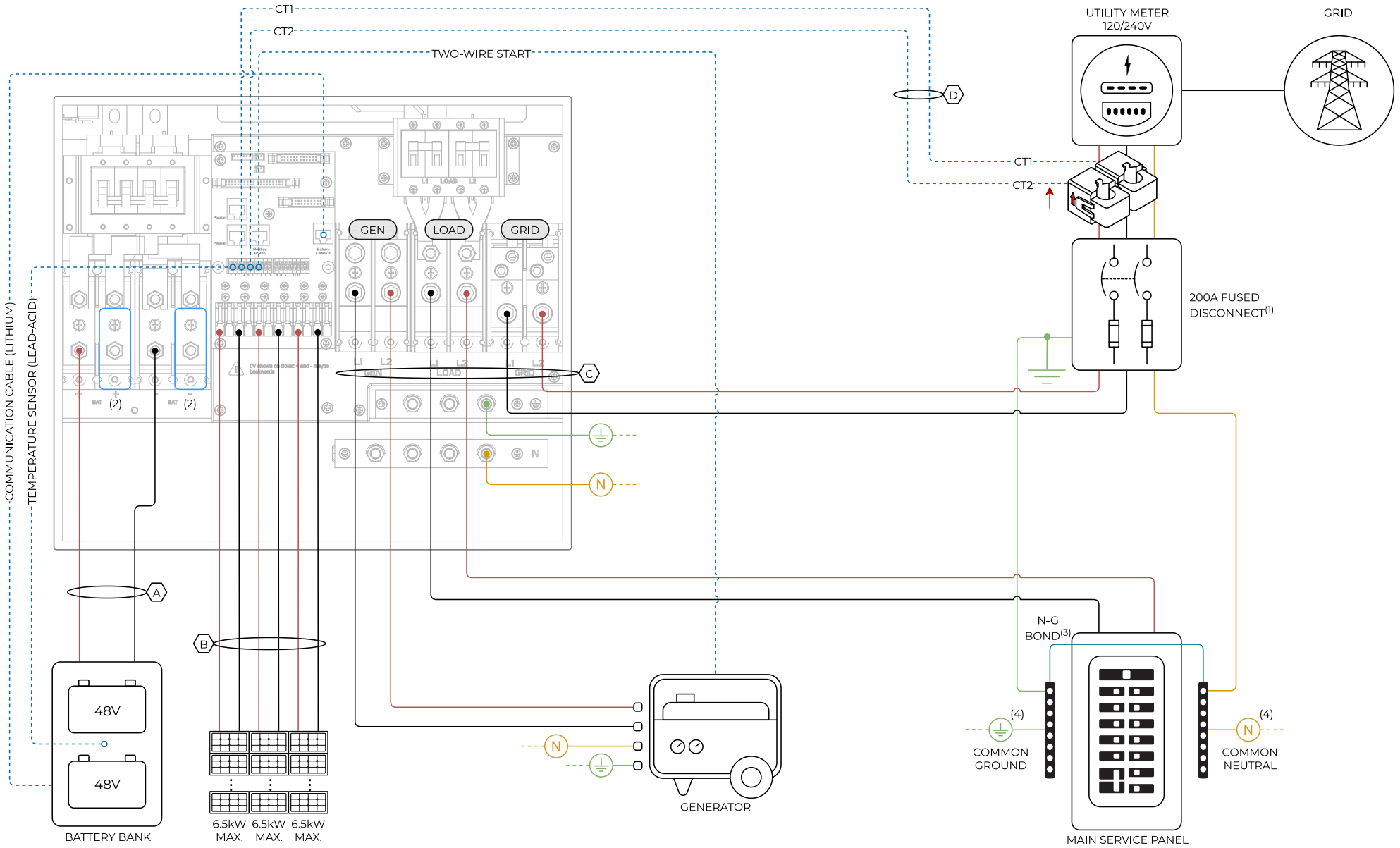
15K-2P-N

WIRING DIAGRAMS

DISCLAIMER

The following diagrams are general use cases. Installers are reminded that adherence to local electrical codes and regulations is mandatory. While these diagrams offer general guidance, they may not encompass all variations and specifics required by local codes. Consult with relevant authorities and ensure compliance before proceeding with any installation. The diagrams presented herein are not exhaustive and should not be relied upon solely for permitting or warranty verification. Installers are encouraged to exercise caution, seek professional advice when necessary, and undertake installations with due diligence and in accordance with established electrical standards and regulations.

Standard Wiring Diagram



L1 - (AC)
NEGATIVE - (DC)

L2 - (AC)
POSITIVE - (DC)

NEUTRAL

GROUND

SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS

(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2

(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE

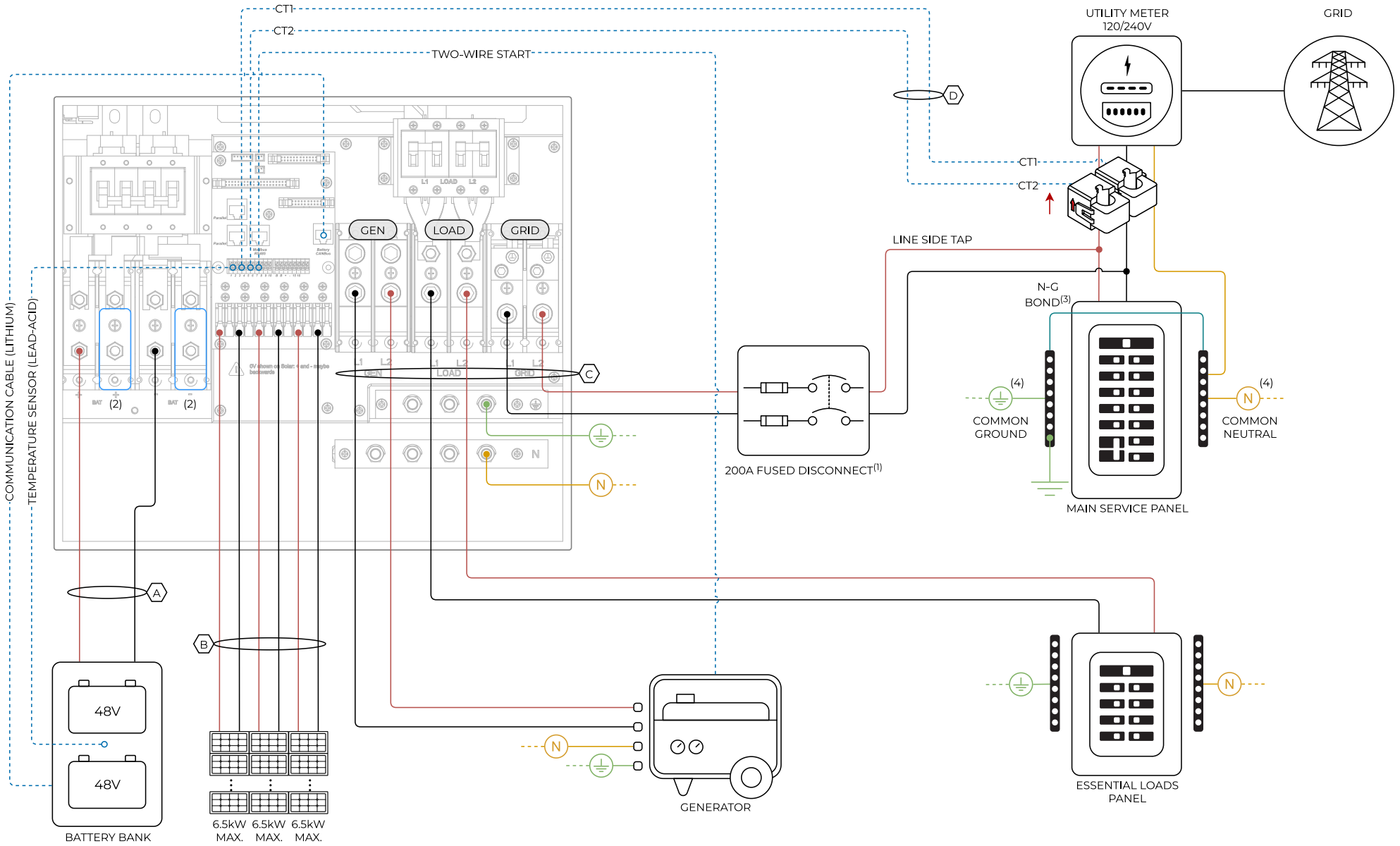
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 01

Standard Wiring Diagram – **Line Side Tap**



L1 - (AC)
NEGATIVE - (DC)

L2 - (AC)
POSITIVE - (DC)

NEUTRAL

GROUND

SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS

(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2

(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE

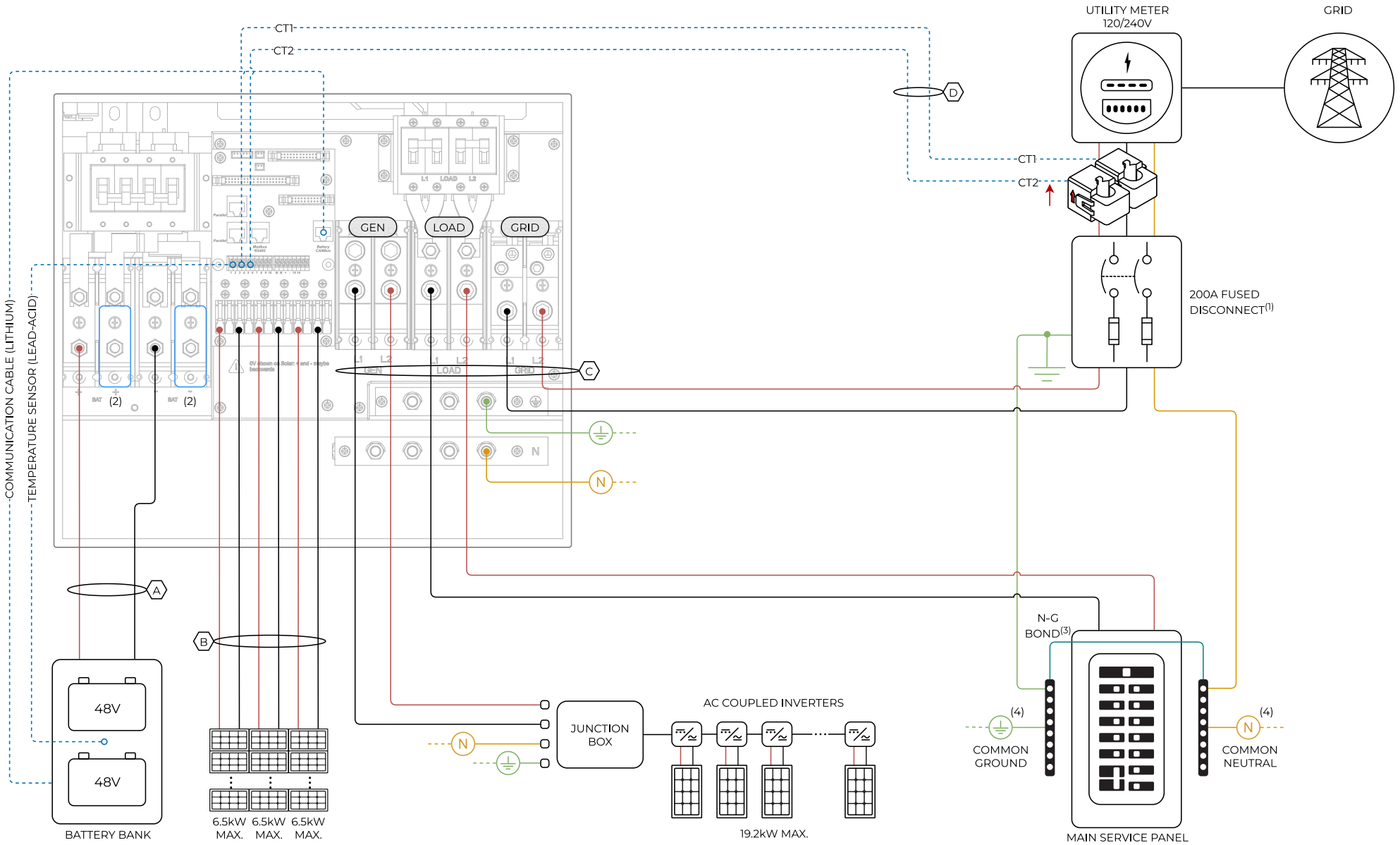
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 02

Standard Wiring Diagram – **AC Coupling in GEN**



L1 - (AC)
NEGATIVE - (DC)

L2 - (AC)
POSITIVE - (DC)

NEUTRAL

GROUND

SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS

(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2

(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE

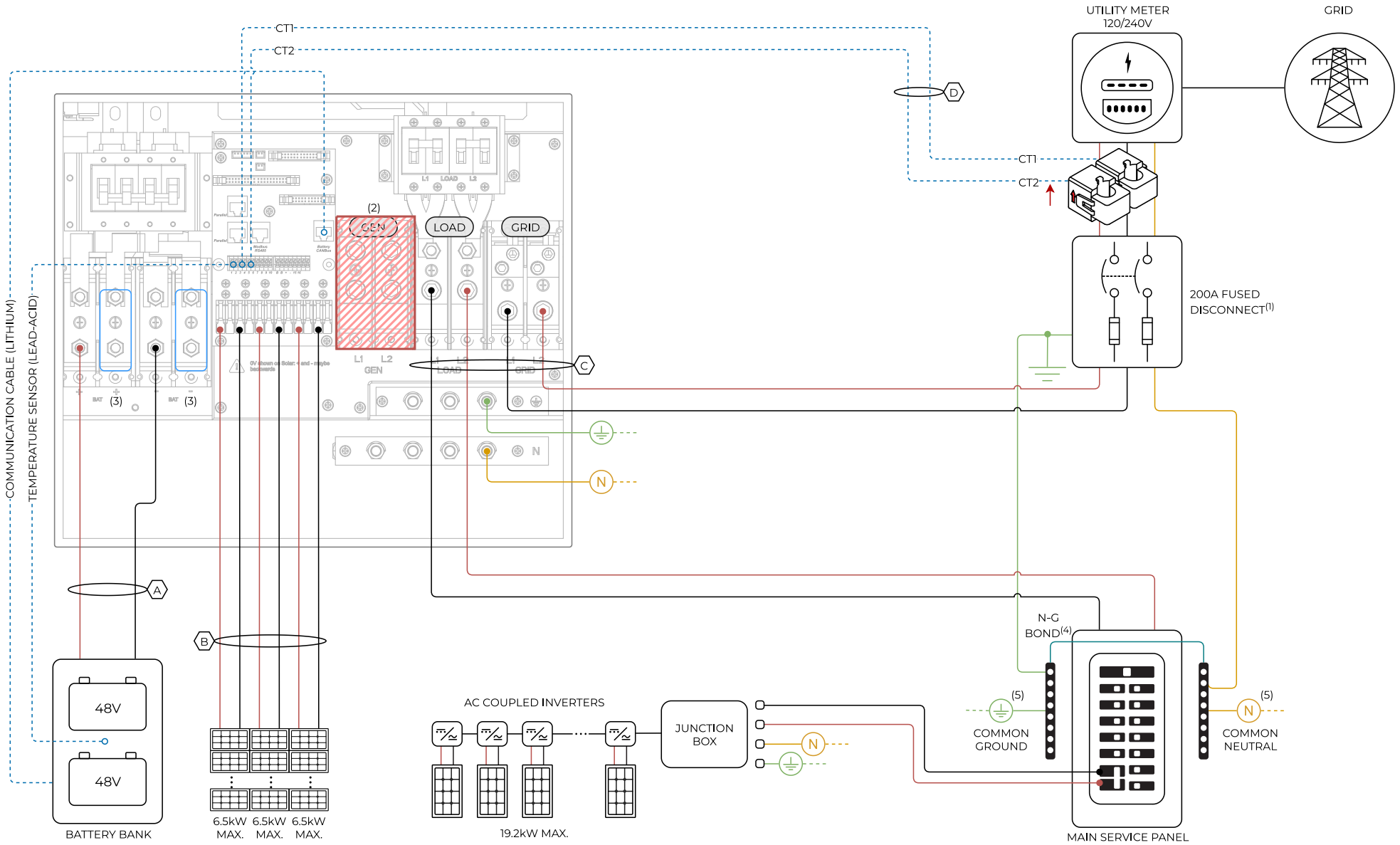
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 03

Standard Wiring Diagram – **AC Coupling in LOAD**



L1 - (AC)
NEGATIVE - (DC)

L2 - (AC)
POSITIVE - (DC)

NEUTRAL

GROUND

SENSORS / COMMUNICATIONS

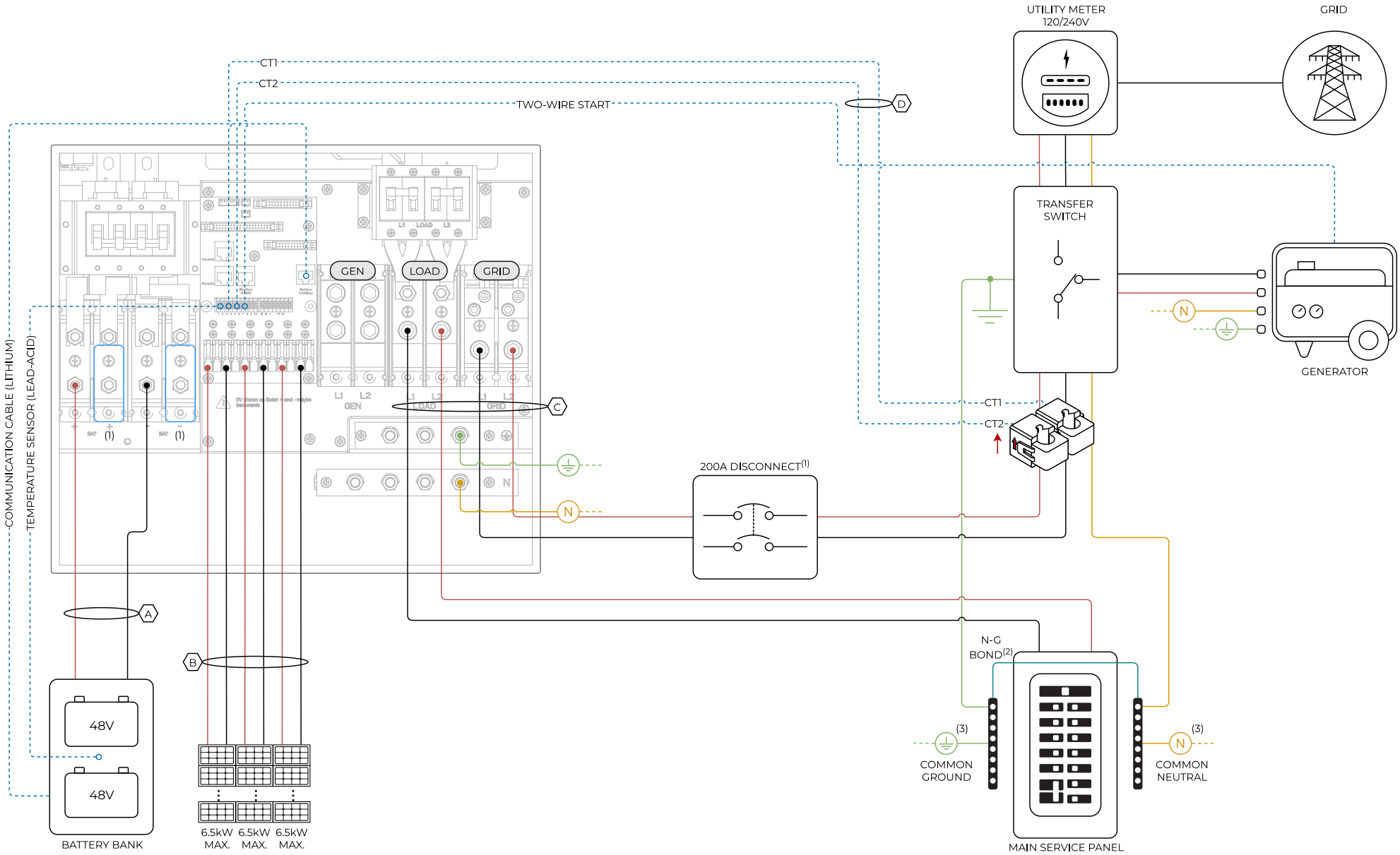
(1) SIZE OF DISCONNECT WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS
(2) "GEN" TERMINAL CANNOT BE USED
(3) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(4) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(5) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 04

Standard Wiring Diagram – **Whole-Home Generator**



L1 - (AC) NEGATIVE - (DC)
L2 - (AC) POSITIVE - (DC)
NEUTRAL
GROUND
SENSORS / COMMUNICATIONS

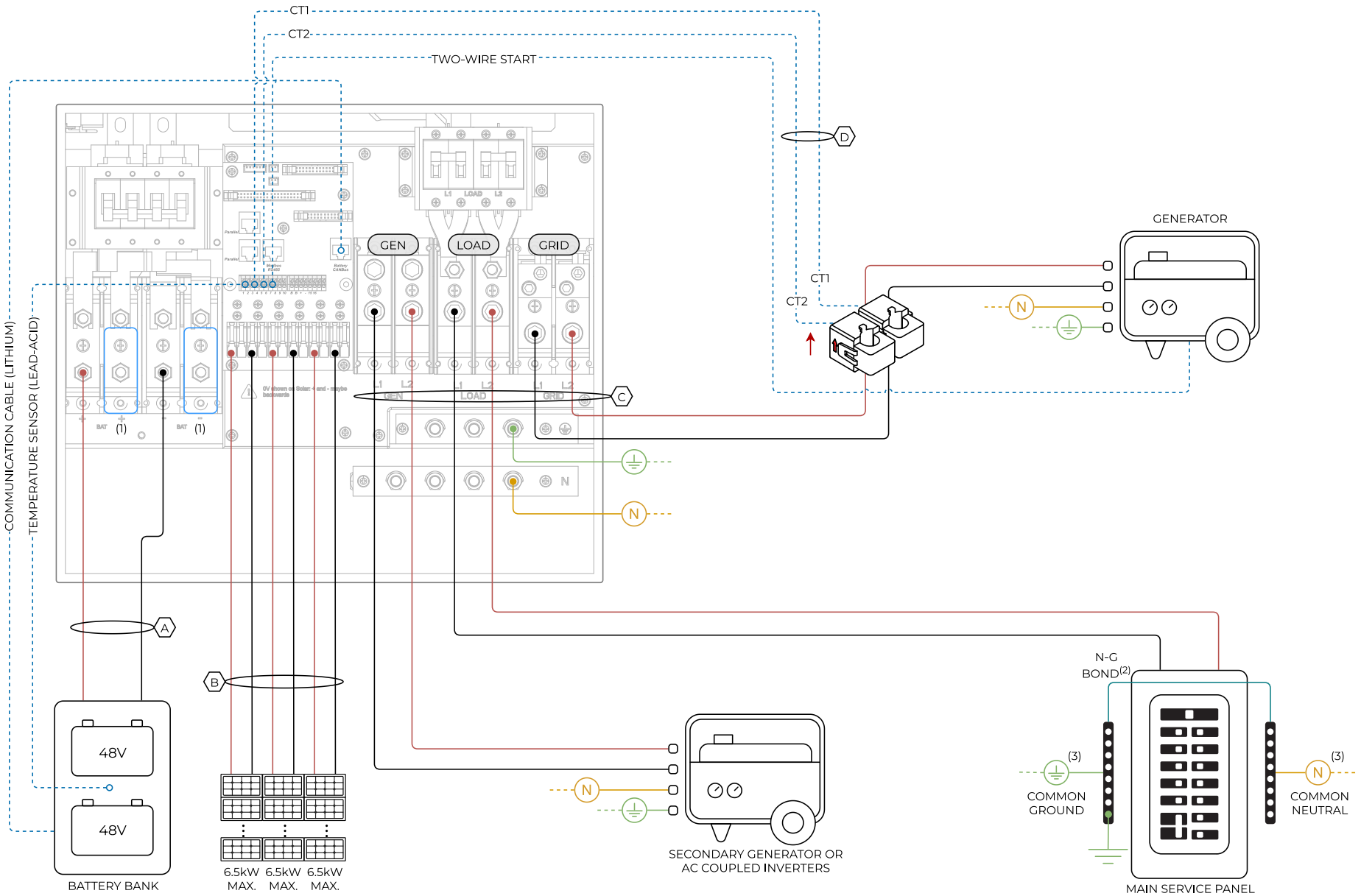
(1) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(2) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(3) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 05

Standard Wiring Diagram – **Off Grid**



L1 - (AC) NEGATIVE - (DC)
L2 - (AC) POSITIVE - (DC)
NEUTRAL
GROUND
SENSORS / COMMUNICATIONS

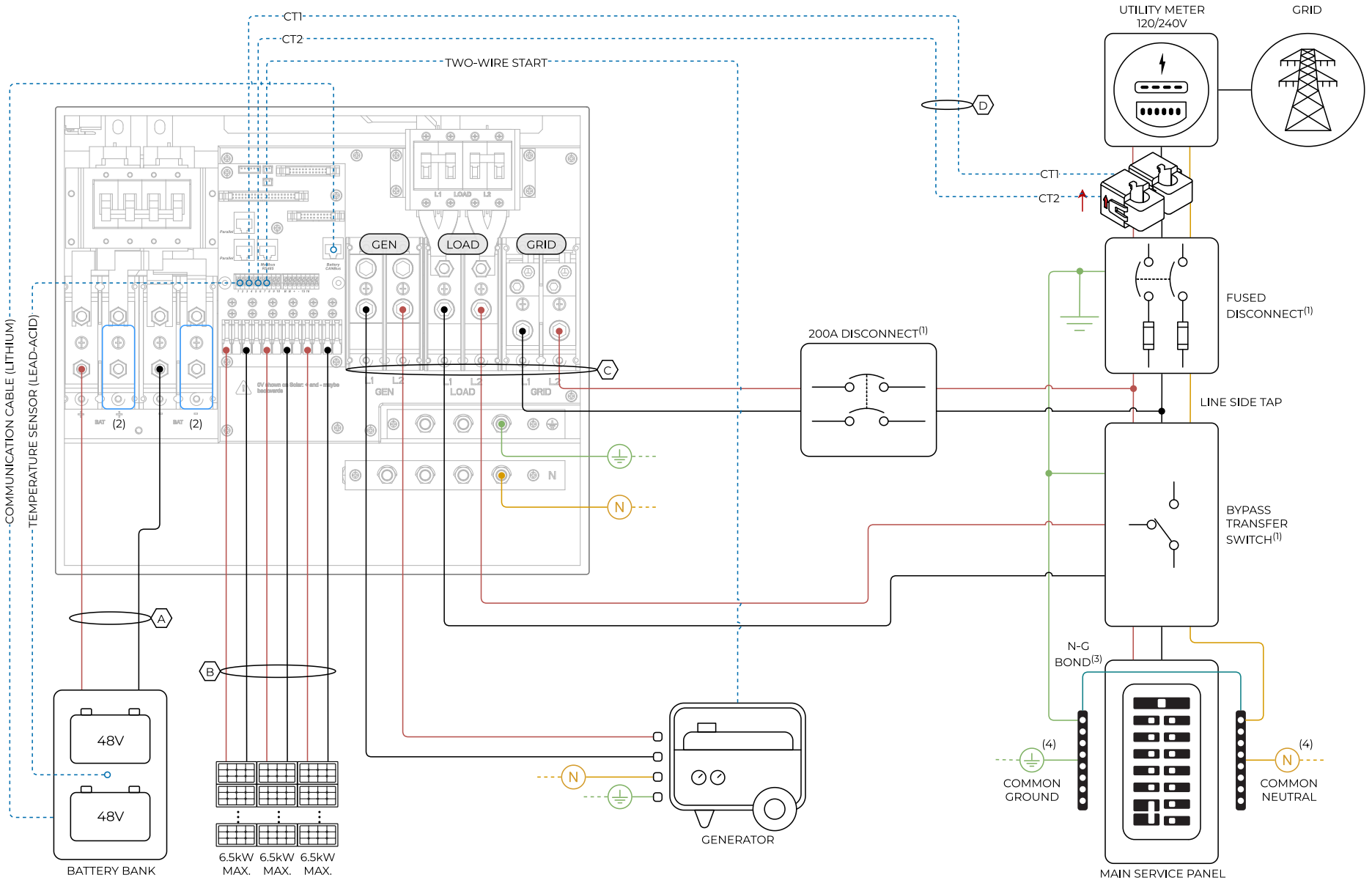
(1) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(2) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(3) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 06

Standard Wiring Diagram – **Bypass Transfer Switch**



L1 - (AC)
NEGATIVE - (DC)

L2 - (AC)
POSITIVE - (DC)

NEUTRAL

GROUND

SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT / BYPASS SWITCH WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS

(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2

(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE

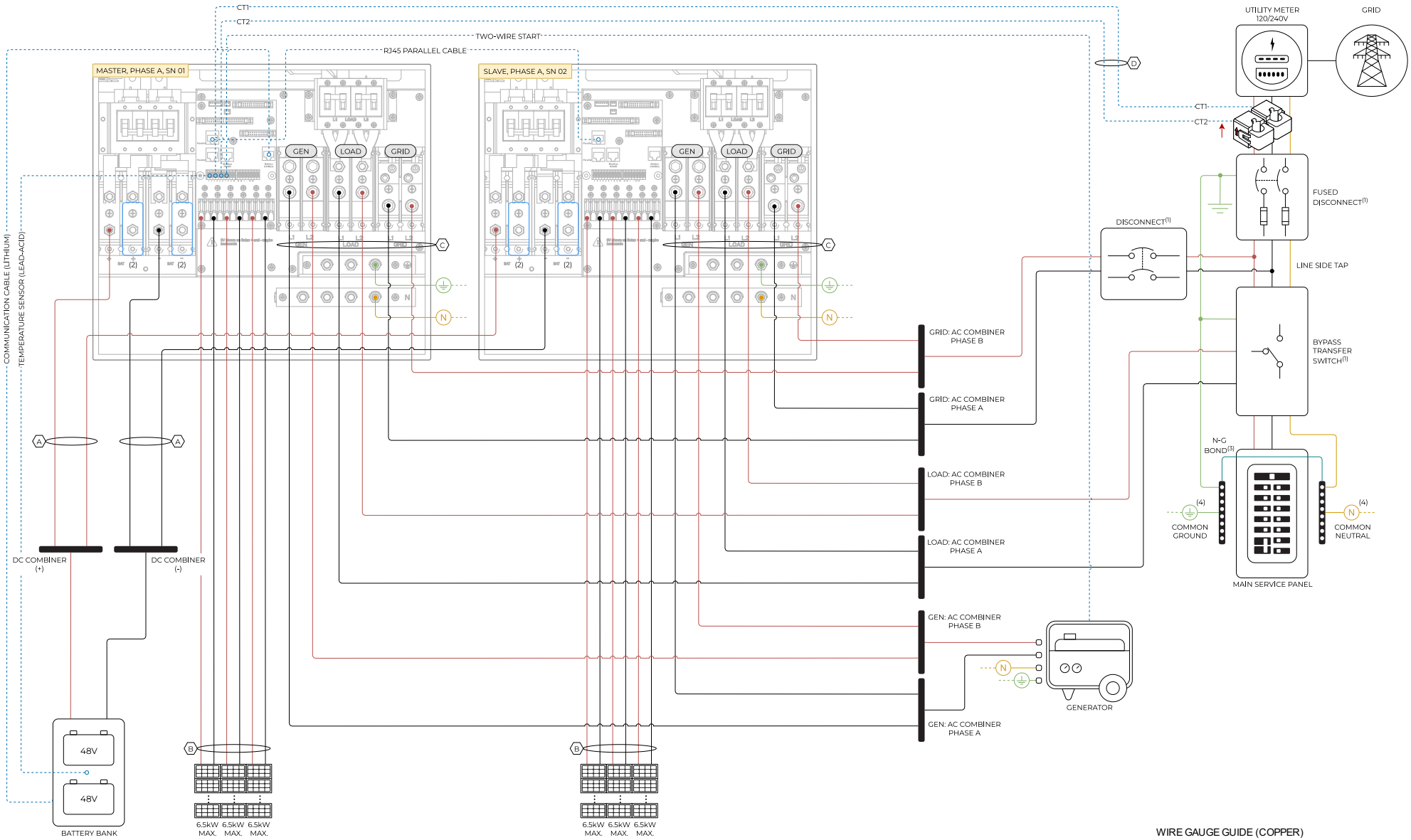
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 07

Standard Wiring Diagram – **2 Parallel Inverters | 120/240V**



L1 - (AC) NEGATIVE - (DC)
L2 - (AC) POSITIVE - (DC)
NEUTRAL
GROUND
SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT / BYPASS SWITCH WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS
(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

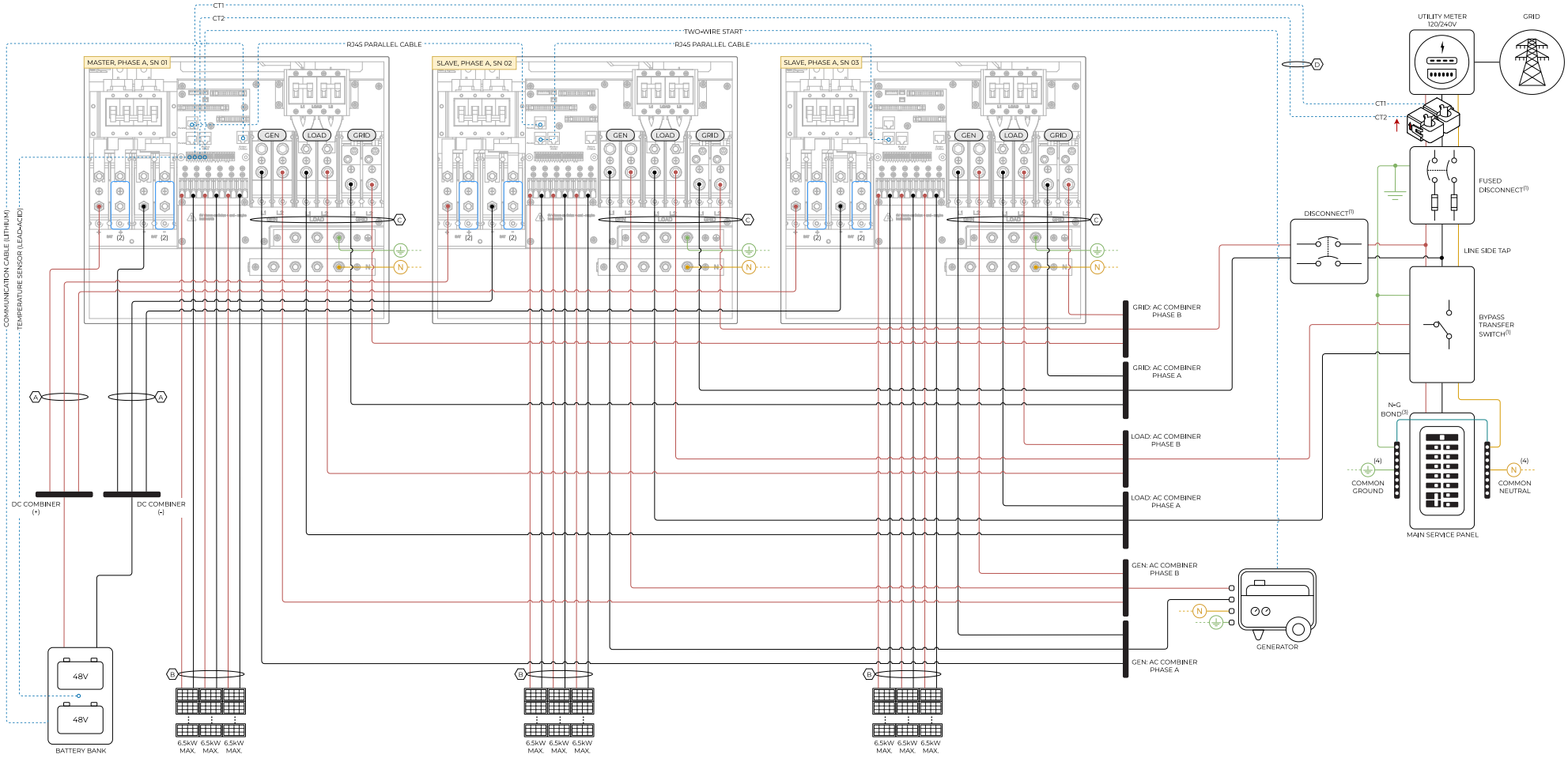
WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 08

Before powering up Parallel System installs, please see section 5 "Parallel Systems"

Standard Wiring Diagram – **3 Parallel Inverters | 120/240V**



L1 - (AC) NEGATIVE - (DC)
L2 - (AC) POSITIVE - (DC)
NEUTRAL
GROUND
SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT / BYPASS SWITCH WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS
(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

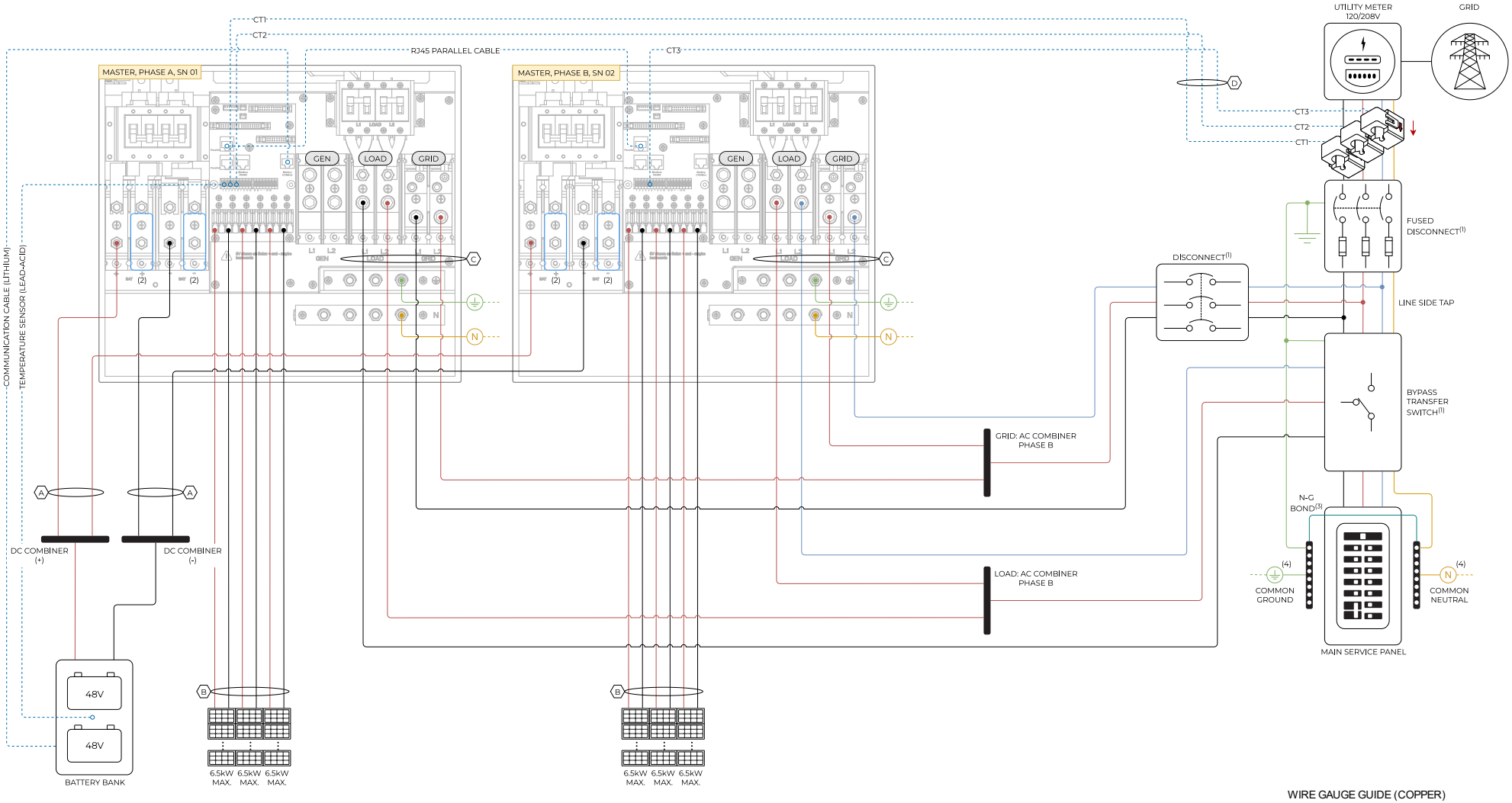
WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 09

Before powering up Parallel System installs, please see section 5 "Parallel Systems"

Standard Wiring Diagram – **2 Parallel Inverters | 120/208V**



L1 - (AC) NEGATIVE - (DC) | L2 - (AC) POSITIVE - (DC) | L3 | NEUTRAL | GROUND | SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT / BYPASS SWITCH WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS
(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

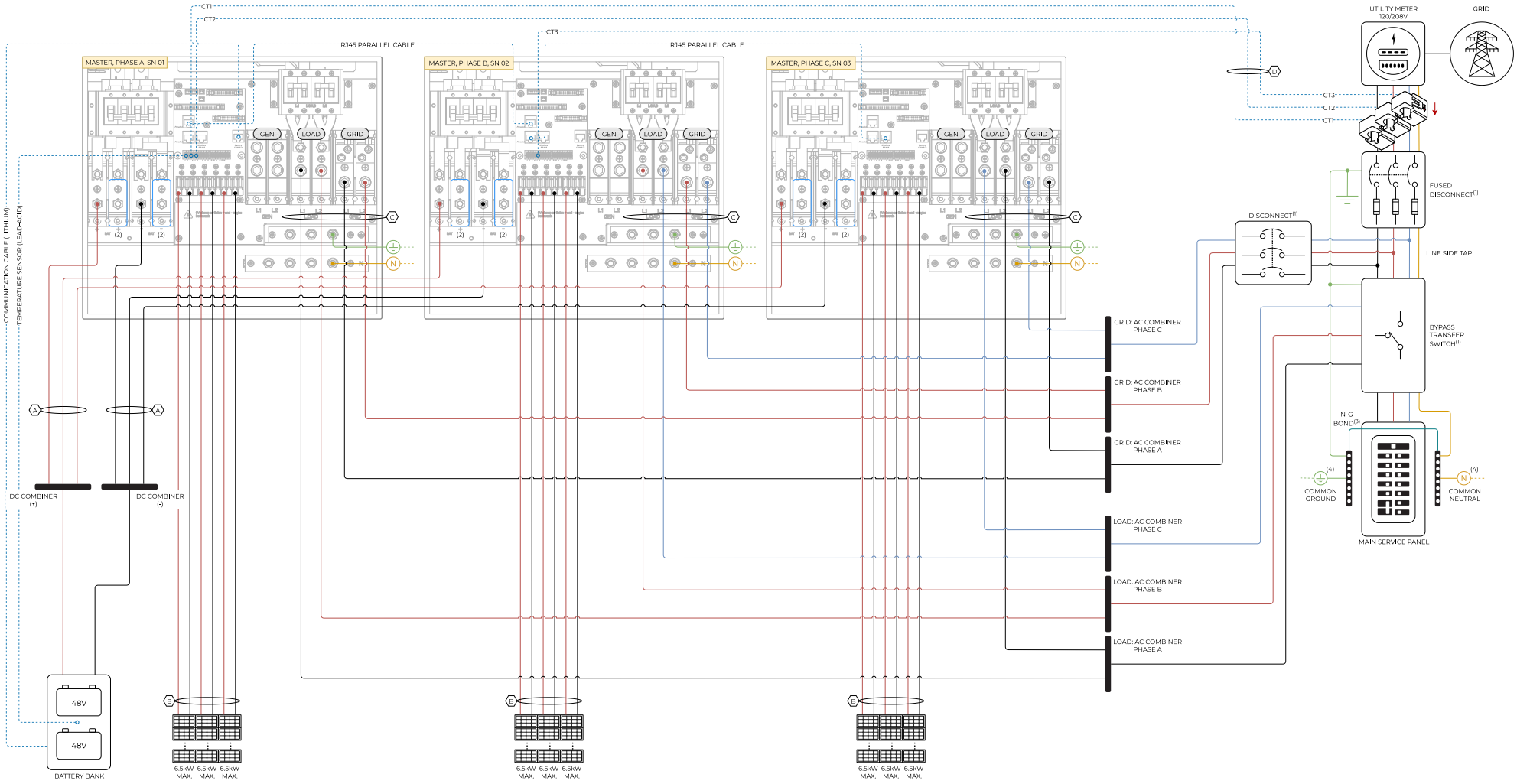
WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 10

Before powering up Parallel System installs, please see section 5 "Parallel Systems"

Standard Wiring Diagram – **3 Parallel Inverters | 120/208V**



L1 - (AC) NEGATIVE - (DC)
L2 - (AC) POSITIVE - (DC)
L3
NEUTRAL
GROUND
SENSORS / COMMUNICATIONS

(1) SIZE OF DISCONNECT / BYPASS SWITCH WILL DEPEND ON REQUIRED PASSTHROUGH CURRENT AND LOCAL CODE REQUIREMENTS
(2) GREATER THAN 160A BATTERY CHARGE / DISCHARGE: REFER TO "MULTI-TERMINAL INSTALLATION" INSTRUCTIONS OF SECTION 2.2
(3) LOCATION OF THE NEUTRAL-GROUND BOND WILL DEPEND ON LOCAL CODE
(4) THESE SYMBOLS REPRESENT A COMMON NEUTRAL / GROUND CONNECTION. **DO NOT** CONFUSE WITH GROUNDING ROD

WIRE GAUGE GUIDE (COPPER)

LABEL	CONDUCTOR
A	MAX. 4/0 AWG
B	MAX. 10 AWG
C	MAX. 4/0 AWG
D	24 –23 AWG CAT6

Diagram 11

Before powering up Parallel System installs, please see section 5 "Parallel Systems"