

# EG4 FlexBOSS18 System Wiring Diagrams - Version 2.05

## Overview of FlexBOSS18 ESS System Use Cases

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#### BusBar PCS is Pending:

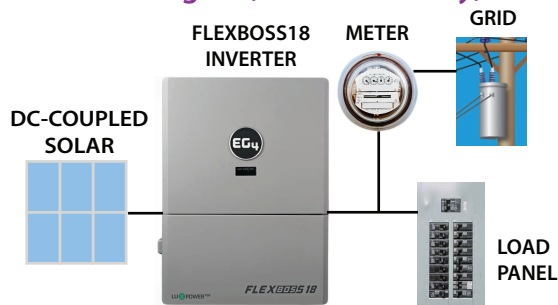
These drawings will be updated when final listing is secured. Contact your Sales Rep. for further information.

# Overview of FlexBOSS18 ESS System Use Cases (See Corresponding Drawing #)

## WITHOUT GRIDBOSS

Grid-Tie Only  
No Batteries

Drawing #4 (without battery)

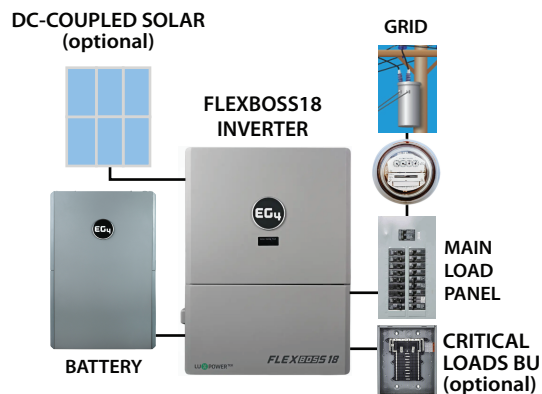


- Maximize Solar Offset
- Low Initial Cost - Simple
- No Storage or add later
- No Solar when Grid down

## Optimize or Minimize NEM

No or Critical Loads Backup

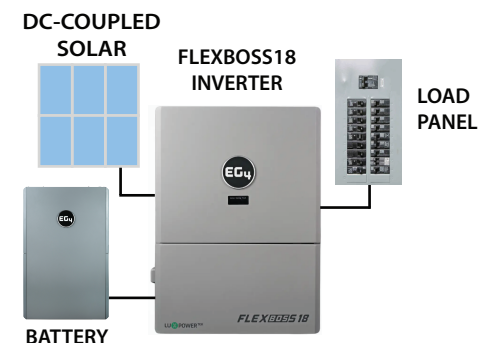
Drawings #4 & 5



- Minimize Buy & Sell with unfavorable NEM Policy
- Buy Low, Sell High with favorable NEM or TOU Policy
- TOU Capable with or without Solar or Backup Loads

## Off-Grid

Drawing #9



- Remote - No Grid or Seldom Use Grid
- Grid Expensive
- Add Grid Backup Later
- Energy Autonomy

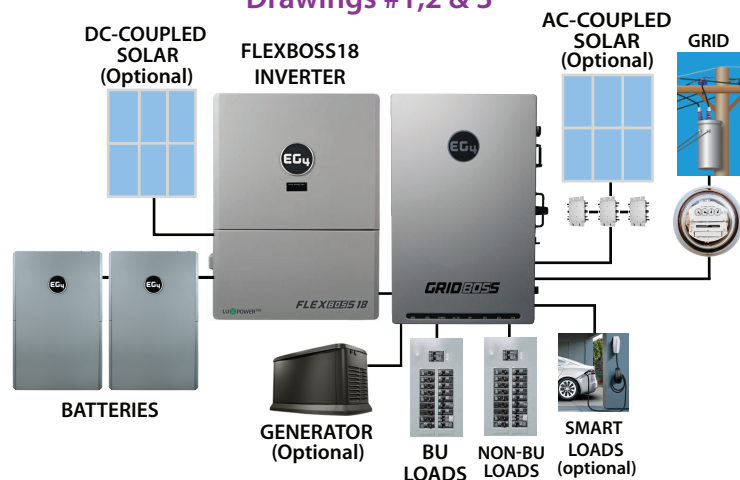
Note: If no utility grid is present or planned then the EG4 6000XP or 12000XP with generator support may better serve this use case.

## WITH GRIDBOSS

### Optimize or Minimize NEM

Partial Home or Limited Whole Home Backup

Drawings #1,2 & 3

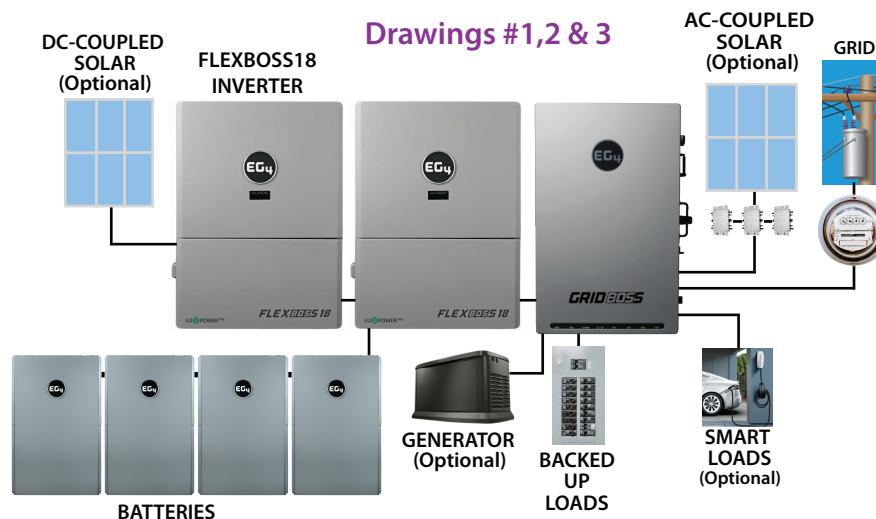


- Utilize Smart Loads to enable Whole Home BU for 1 inverter systems.
- Easily Integrate existing AC Coupled systems and/or Generators.
- Add DC Solar to existing AC Coupled Solar to achieve high Solar Offset.

### Optimize or Minimize NEM - Whole Home Backup

Off-Grid Capable for Extended Outages

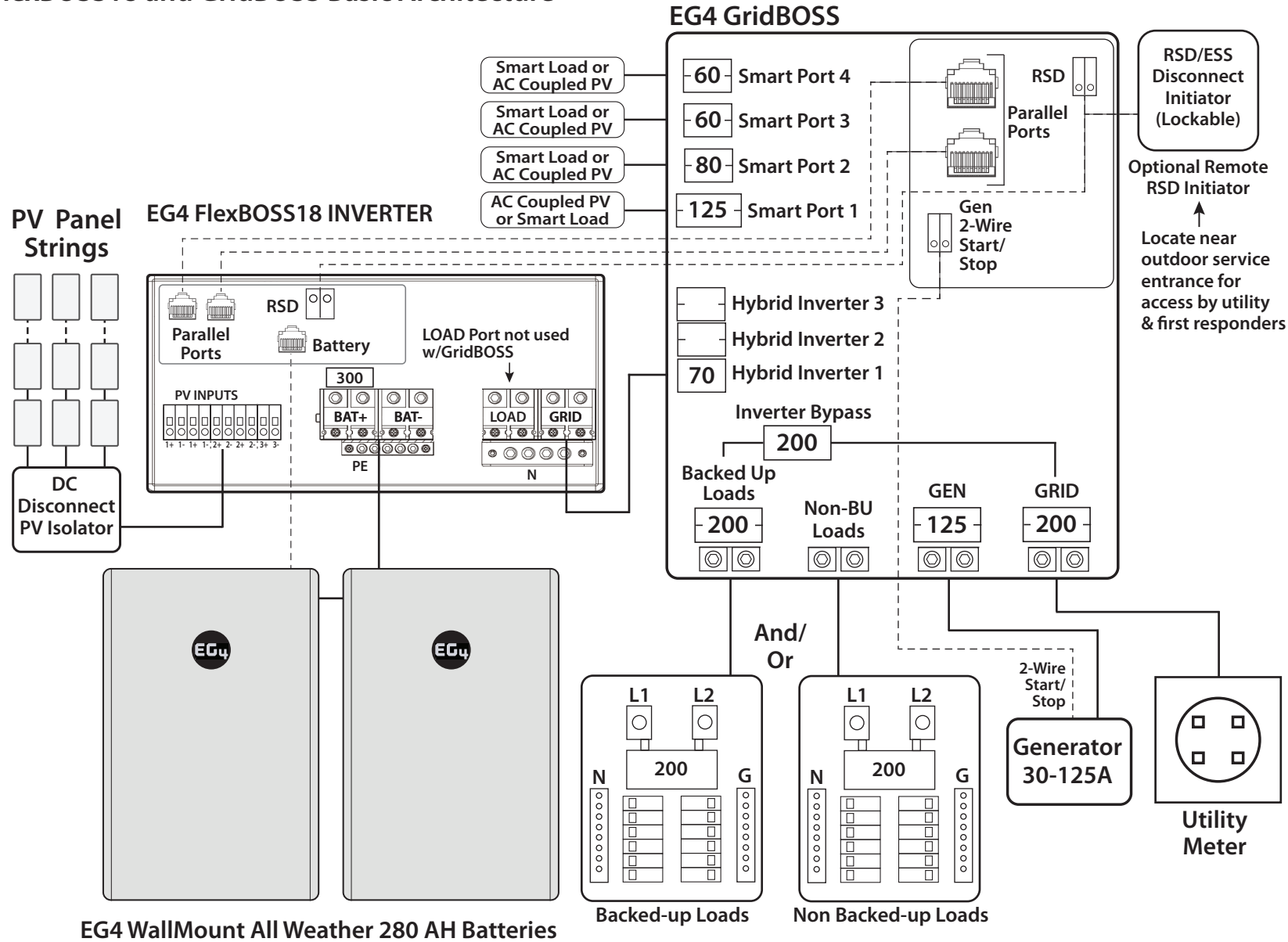
Drawings #1,2 & 3



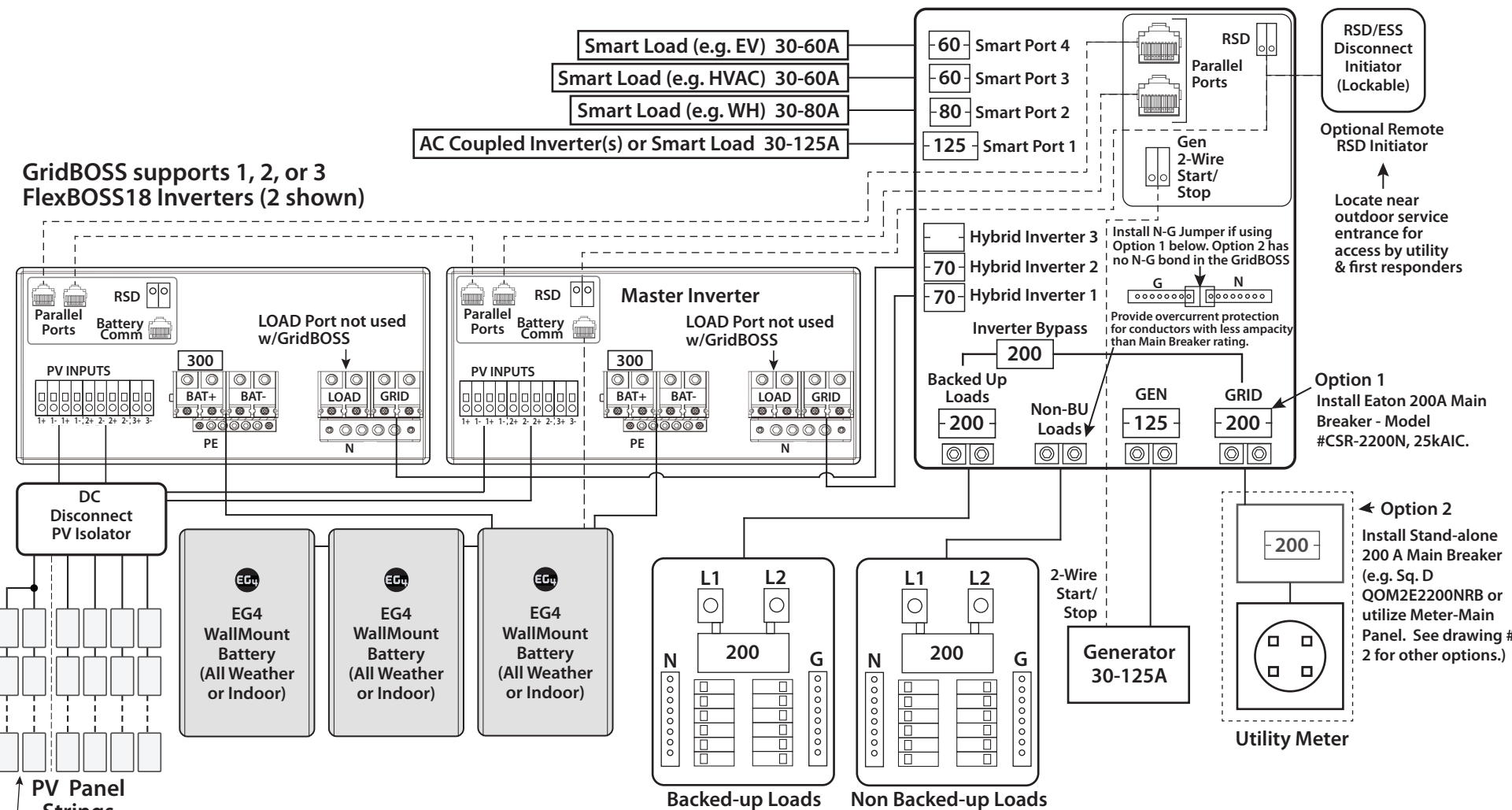
- Utilize Smart Loads to manage battery backup during long outages.
- 2 Inverter systems meets full power needs of 90% of homes, 3 = 200 A Service.
- Provide DC Solar with or without AC Solar to meet full energy needs on or off-grid.

# FlexBOSS18 with GridBOSS

## 1. EG4 FlexBOSS18 and GridBOSS Basic Architecture



2. EG4 FlexBOSS18 and GridBOSS - Detailed Schematic



Alternate configuration for MPPTs capable of 2 x solar panel Imp.

FlexBOSS18 PV DC Inputs

# OF MPPTS   # OF STRINGS PER MPPT	2/2
MAX. CURRENT PER MPPT	26A/26A
MAX. SHORT-CIRCUIT CURRENT RATING PER MPPT	31A/31A
MAX. PV INPUT VOLTAGE	600 VDC
MPPT VOLTAGE RANGE	120V – 440 VDC
UNIT STARTUP VOLTAGE	200 VDC

FlexBOSS18 AC Specs

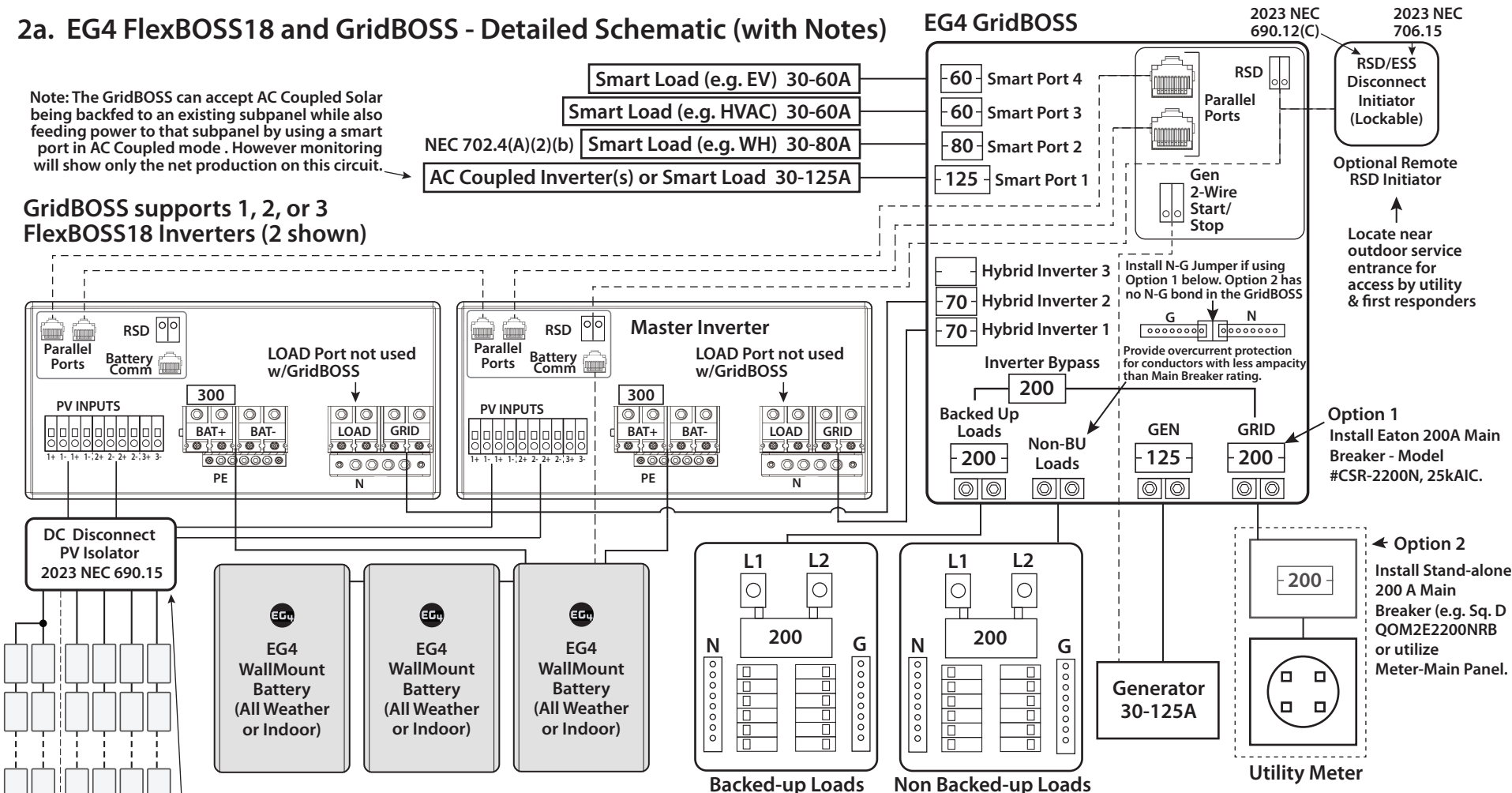
MAX. CONTINUOUS DISCHARGE RATE	10kW
MAX. APPARENT POWER	13kW (54A @240V) 11.2kW (54A @208V)
MAX. CONTINUOUS CURRENT @ 45°C	54A
MAX. CONTINUOUS DISCHARGE W/ PV & GRID ONLY @ 45°C	10kW   13kW
POWER FACTOR (OUTPUT)	0.6 – 1.0
MAX. OUTPUT FAULT CURRENT	156A peak @ 100us
MAX. PASSTHROUGH FROM GRID	90A



2a. EG4 FlexBOSS18 and GridBOSS - Detailed Schematic (with Notes)

Note: The GridBOSS can accept AC Coupled Solar being backed to an existing subpanel while also feeding power to that subpanel by using a smart port in AC Coupled mode. However monitoring will show only the net production on this circuit.

GridBOSS supports 1, 2, or 3 FlexBOSS18 Inverters (2 shown)



- Use EG4 WallMount (WM) or Server Rack (SR) Batteries:
- Up to 6 PowerPro WM (280AH) batteries for 1-3 EG4 Inverters can utilize internal bus bars with no need for external bus bars or fusing.
  - Up to 12 standard Server Rack batteries in 2 EG4 6-high racks can utilize the rack bus bars with no need for external bus bars or fusing.

For larger battery configurations:

- Utilize "Disable Shared Battery" mode to avoid excessive battery cabling and to avoid paralleling more than 6 WM batteries and to avoid busbars.
- If you must use an external bus bar then use a fused positive battery bus bar rated  $\geq 250$  Amps per inverter using Class-T fuses and use a negative battery bus bar or power distribution block rated  $\geq 250$  Amps per inverter.

Minimum Recommended Battery to Inverter Ratios

Battery	WallMount		Server Rack	
	280 AH - 200 A BMS	100 AH - 100 A BMS	100 AH - 100 A BMS	100 AH - 100 A BMS
EG4 Inverter	AllWeather	Indoor	LL-S 48V	LifePower4
	12kPV	1	2.5	2.5
	18kPV	1.5	4	4
	FlexBoss18	1.5	4	4
FlexBoss21	1.5	1.5	4	4

This chart indicates the minimum number of EG4 batteries required to provide sufficient battery ampereage to the inverter to produce it's full rated power. It does not indicate sufficient kWhrs needed for back-up storage for any given set of loads. See EG4 Battery and Inverter Sizer tool on the EG4 website.

**IMPORTANT NOTE:** 1 WM Battery will limit the output of one FB18 Inverter to 43 Amps hence the minimum ratio is 1.5/1. One battery per FB21 is okay for minimal NEM/TOU or BU systems where the full 50 Amp inverter output is not needed.

EG4 GridBOSS Breaker Values

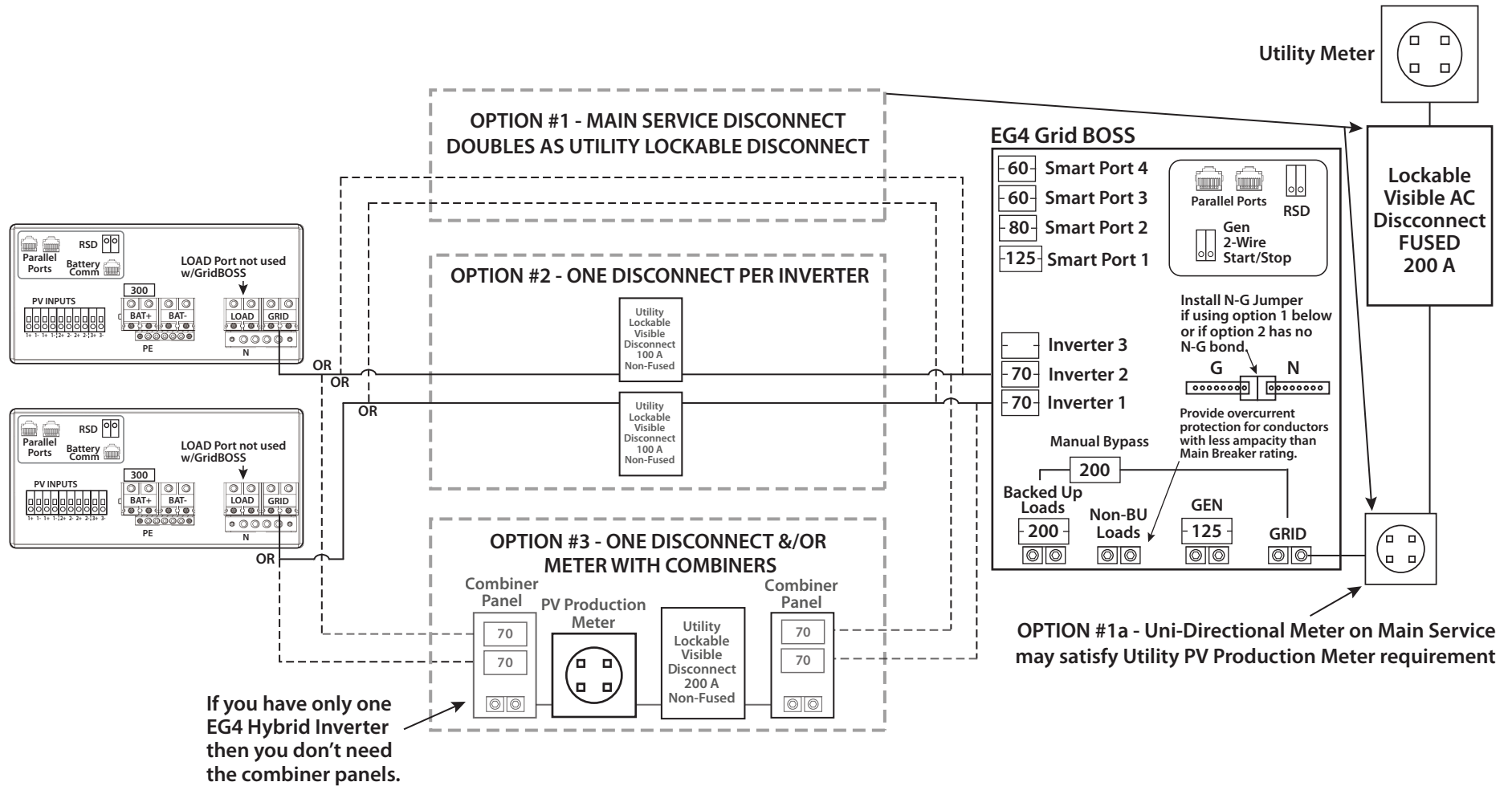
Breaker Name	Style	Breaker Value(s)
SmartPort 4	User Selectable	30-60 Amps
SmartPort 3	User Selectable	30-60 Amps
SmartPort 2	User Selectable	30-80 Amps
SmartPort 1	User Selectable	30-125 Amps
Inverter 3	User Selectable	50-90 Amps
Inverter 2	User Selectable	50-90 Amps
Inverter 1	User Selectable	50-90 Amps
Backed Up Loads	Fixed	200 Amps
Non-BU Loads	No Breaker	Main Breaker
GEN	User Selectable	30-125 Amps
GRID	User Supplied	200 Amps

### 3. FlexBOSS18 with GridBOSS: Options for Utility Lockable Disconnect(s) and Meter Requirements

Some Utilities will approve using the Inverter (1,2 & 3) Breakers in the GridBOSS as the Utility PV System Disconnect(s). The GridBOSS door is lockable. In this case you can connect the Inverter's GRID ports directly to the Hybrid Inverter Breakers.

Other Utilities require Lockable, Visible Knife-Switch Type Disconnects- if your utility requires this then you have these 3 options below.

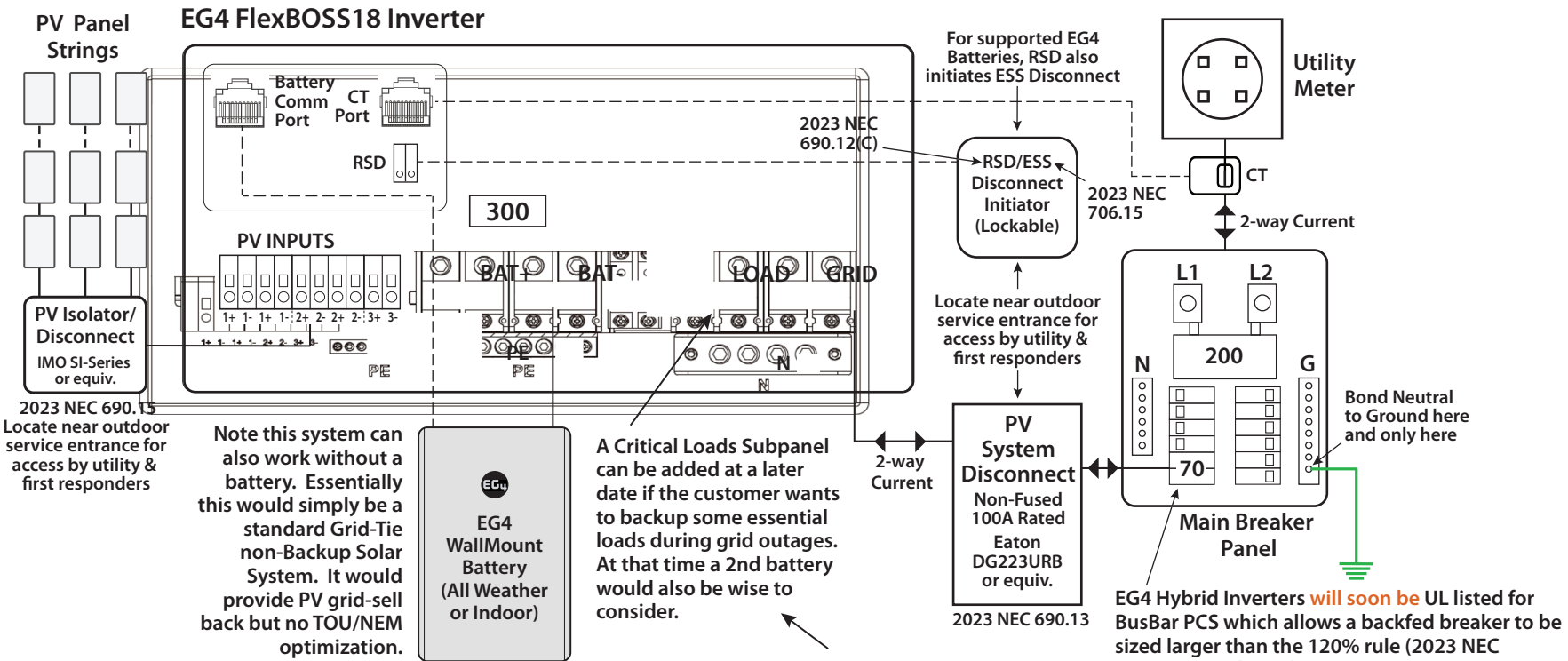
If your utility requires a dedicated PV Production meter you have two options - either Option #1a or Option #3 below:



# FlexBOSS18 without GridBOSS

## 4. EG4 FlexBOSS18 with Back-Fed Breaker - No Backup - Self Consumption and NEM/TOU only

This system has no backed-up loads. It will simply serve to optimizing NEM/TOU economics by maximizing self-consumption of available solar and battery power of the loads in the Main Breaker Panel by providing battery cycling - applying daytime PV to nighttime loads or optimal TOU times. There will be no backup upon a grid outage in this system as it is wired below. See next page for system with backed-up loads panel. The number of batteries in this system is determined by how many kWhs needs to be cycled on a daily basis.



### FlexBOSS18 PV DC Inputs

# OF MPPTS   # OF STRINGS PER MPPT	2/2
MAX. CURRENT PER MPPT	26A/26A
MAX. SHORT-CIRCUIT CURRENT RATING PER MPPT	31A/31A
MAX. PV INPUT VOLTAGE	600 VDC
MPPT VOLTAGE RANGE	120V – 440 VDC
UNIT STARTUP VOLTAGE	200 VDC

### FlexBOSS18 AC Specs

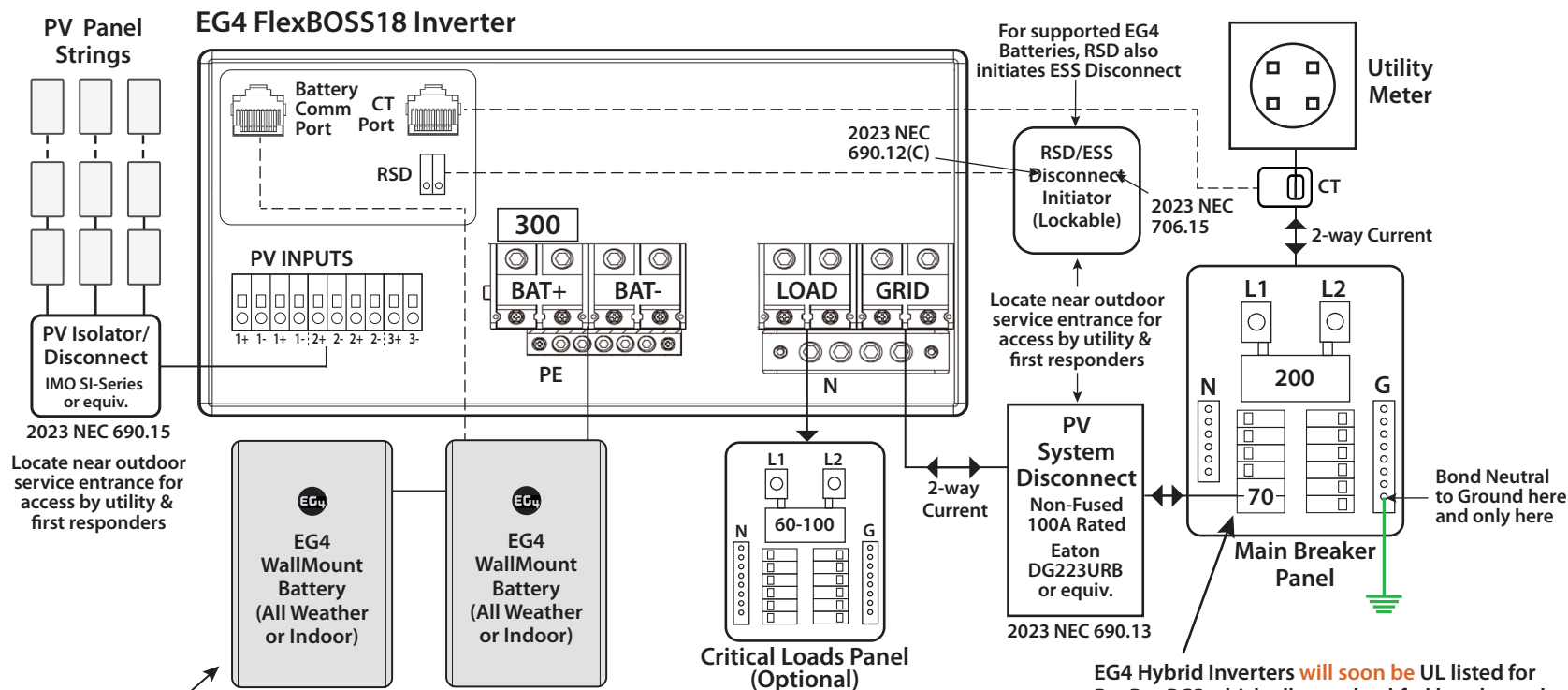
MAX. CONTINUOUS DISCHARGE RATE	10kW
MAX. APPARENT POWER	13kW (54A @240V) 11.2kW (54A @208V)
MAX. CONTINUOUS CURRENT @ 45°C	54A
MAX. CONTINUOUS DISCHARGE W/ PV & GRID ONLY @ 45°C	10kW   13kW
POWER FACTOR (OUTPUT)	0.6 - 1.0
MAX. OUTPUT FAULT CURRENT	156A peak @ 100us
MAX. PASSTHROUGH FROM GRID	90A

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### BusBar PCS is Pending:

These drawings will be updated when final listing is secured. Contact your Sales Rep. for further information.

## 5. EG4 FlexBOSS18 with Back-fed Breaker and Partial Home Backup



Use EG4 WallMount (WM) or Server Rack (SR) Batteries: → Minimum Recommended Battery to Inverter Ratios

- Up to 6 PowerPro WM (280AH) batteries for 1-3 EG4 Inverters can utilize internal bus bars with no need for external bus bars or fusing.
- Up to 12 standard Server Rack batteries in 2 EG4 6-high racks can utilize the rack bus bars with no need for external bus bars or fusing.

For larger battery configurations:

- Utilize "Disable Shared Battery" mode to avoid excessive battery cabling and to avoid paralleling more than 6 WM batteries and to avoid busbars.
- If you must use an external bus bar then use a fused positive battery bus bar rated  $\geq 250$  Amps per inverter using Class-T fuses and use a negative battery bus bar or power distribution block rated  $\geq 250$  Amps per inverter.

Battery	WallMount		Server Rack	
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EG4 Inverter	AllWeather	Indoor		
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This chart indicates the minimum number of EG4 batteries required to provide sufficient battery amperage to the inverter to produce its full rated power. It does not indicate sufficient kWhrs needed for back-up storage for any given set of loads. See EG4 Battery and Inverter Sizer tool on the EG4 website.

**IMPORTANT NOTE:** 1 WM Battery will limit the output of one FB21 Inverter to 43 Amps hence the minimum ratio is 1.5/1. One battery per FB21 is okay for minimal NEM/TOU or BU systems where the full 50 Amp inverter output is not needed.

EG4 Hybrid Inverters **will soon be** UL listed for BusBar PCS which allows a backfed breaker to be sized larger than the 120% rule (2023 NEC 705.12(B)(2)) by utilizing an Energy Management System (EMS or more commonly known as PCS. See 2023 NEC 705.13). For PCS to work properly the CTs must be located on the utility side of the breaker protecting that busbar as shown above.

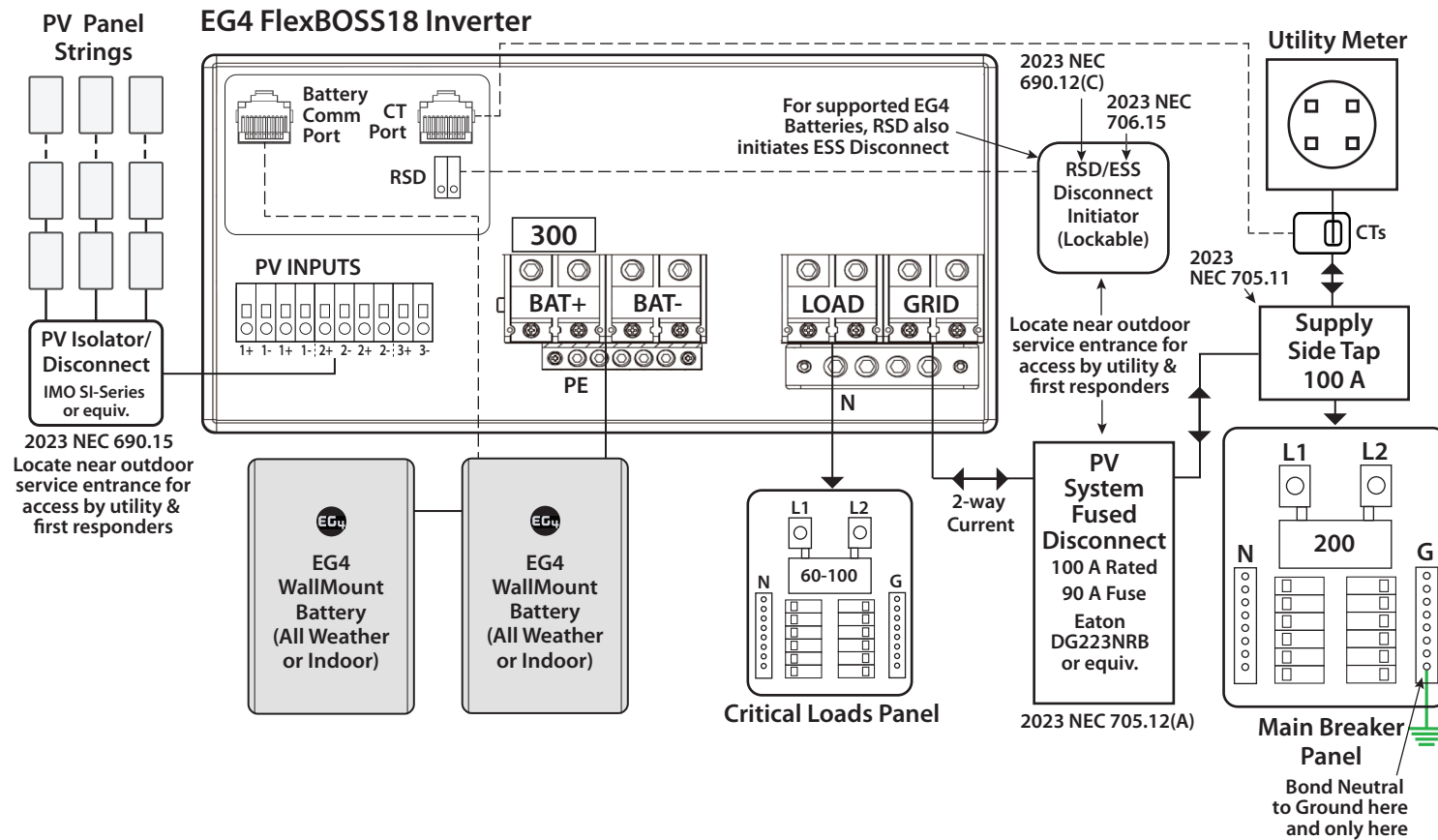
### BusBar PCS is Pending:

These drawings will be updated when final listing is secured. Contact your Sales Rep. for further information.

Note that with this system, Solar PV and Battery Power can power loads both in the Critical Loads Subpanel and in the Main Breaker Panel (Self-Consumption) when the grid is on (through grid sell-back through the Backfed Breaker). When the utility goes down only loads in the critical loads subpanel are backed up.

## 6. EG4 FlexBOSS18 with Supply Side Tap and Partial Home Backup

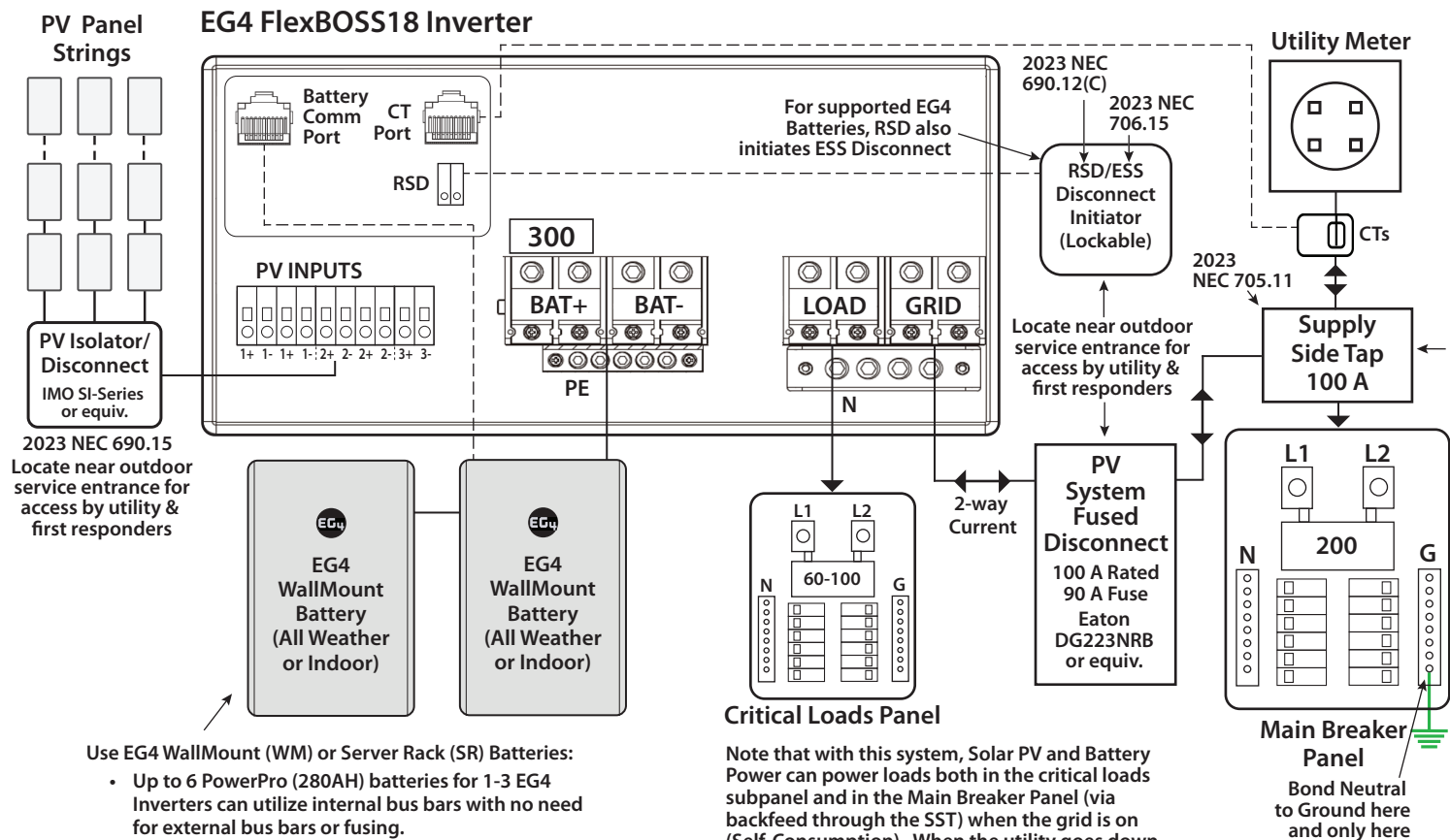
Note that while a Supply Side Tap is a viable option to interconnect a FlexBOSS18 system with the utility we highly recommend you consider using an EG4 GridBOSS. It will be less expensive, will take up less wall space and provide superior features including Load Management which is now required by code for ESS backup systems. See drawings #1 and #2.





### 6a. EG4 FlexBOSS18 with Supply Side Tap and Partial Home Backup (with Notes)

Note that while a Supply Side Tap is a viable option to interconnect a FlexBOSS18 system with the utility we highly recommend you consider using an EG4 GridBOSS. It will be less expensive, will take up less wall space and provide superior features including Load Management which is now required by code for ESS backup systems. See drawings #1 and #2.



**SUPPLY SIDE TAPS** - If your Service Entrance has a 200 A rated Main Panel bus and a 200 A Main Breaker and therefore cannot use a 60 or 70 A Backfed Breaker (see Backfed Breaker diagram) then a Supply-Side Tap may be your solution for point of utility interconnection.

Supply Side Taps allow you to feed the full pass-through capability of the inverter to either your critical loads subpanel or to a transfer switch back to the Main Breaker Panel. Since the FlexBOSS18 has a 200 A pass-through rating you can achieve whole panel or whole home backup. (refer to EG4 design tools).

**Caution:** A Supply Side Tap will essentially add loads to your Service Entrance since the FlexBOSS18 adds 50 A to the total house loads with it's battery charger. With this increased load there is the very real danger of overloading the Service Entrance conductors if the home is already using the full capacity of a 200 A Service. Do this only under advisement of your electrician and/or Electrical Inspector. Alternatively use a Feeder Tap to mitigate this risk. Feeder taps locate this extra load on the load side of the Main Breaker - thus protecting all Service Entrance Conductors. (See Feeder Tap Diagram).

Supply Side Taps should be installed by a professional electrician. Ilco KUP-L-Taps are recommended, but the installer must adhere strictly to installation instructions with proper torque applied (as measured with a torque wrench). Alternatively, a Polaris or Burnby Insulated MultiTap Connector can be used, but these need to be torqued twice - once upon installation and once 24 hours later. Refer to 2023 NEC Code 705.11 and 705.12.

**Use EG4 WallMount (WM) or Server Rack (SR) Batteries:**

- Up to 6 PowerPro (280AH) batteries for 1-3 EG4 Inverters can utilize internal bus bars with no need for external bus bars or fusing.
- Up to 12 standard Server Rack batteries in 2 EG4 6-high racks can utilize the rack bus bars with no need for external bus bars or fusing.

**For larger battery configurations:**

- Utilize “Disable Shared Battery” mode to avoid excessive battery cabling and to avoid paralleling more than 6 batteries.
- If you must use an external bus bar then use a fused positive battery bus bar rated  $\geq 250$  Amps per inverter using Class-T fuses and use a negative battery bus bar or power distribution block rated  $\geq 250$  Amps per inverter.

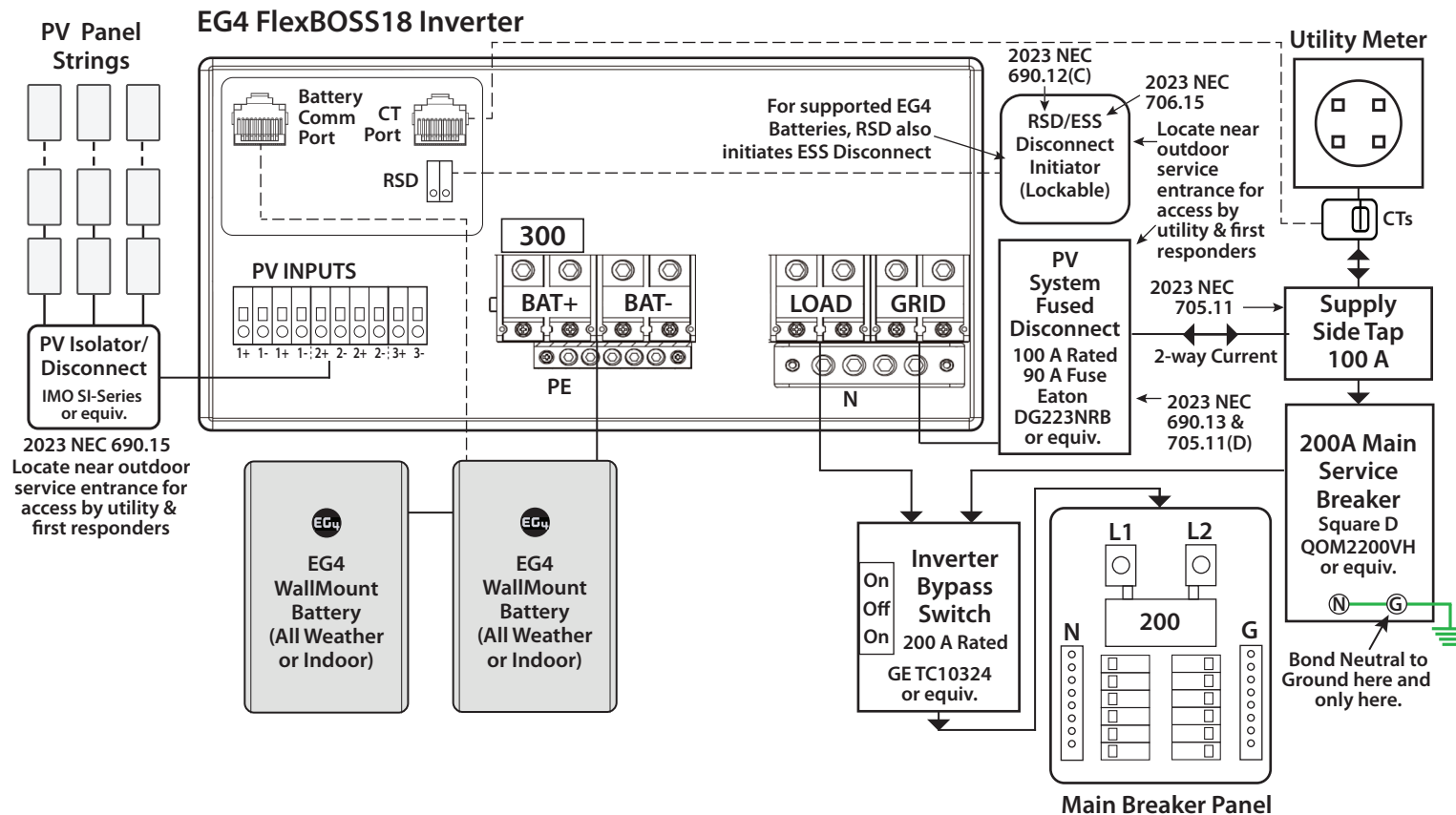
### Critical Loads Panel

Note that with this system, Solar PV and Battery Power can power loads both in the critical loads subpanel and in the Main Breaker Panel (via backfeed through the SST) when the grid is on (Self-Consumption). When the utility goes down only loads in the critical loads subpanel are backed up.

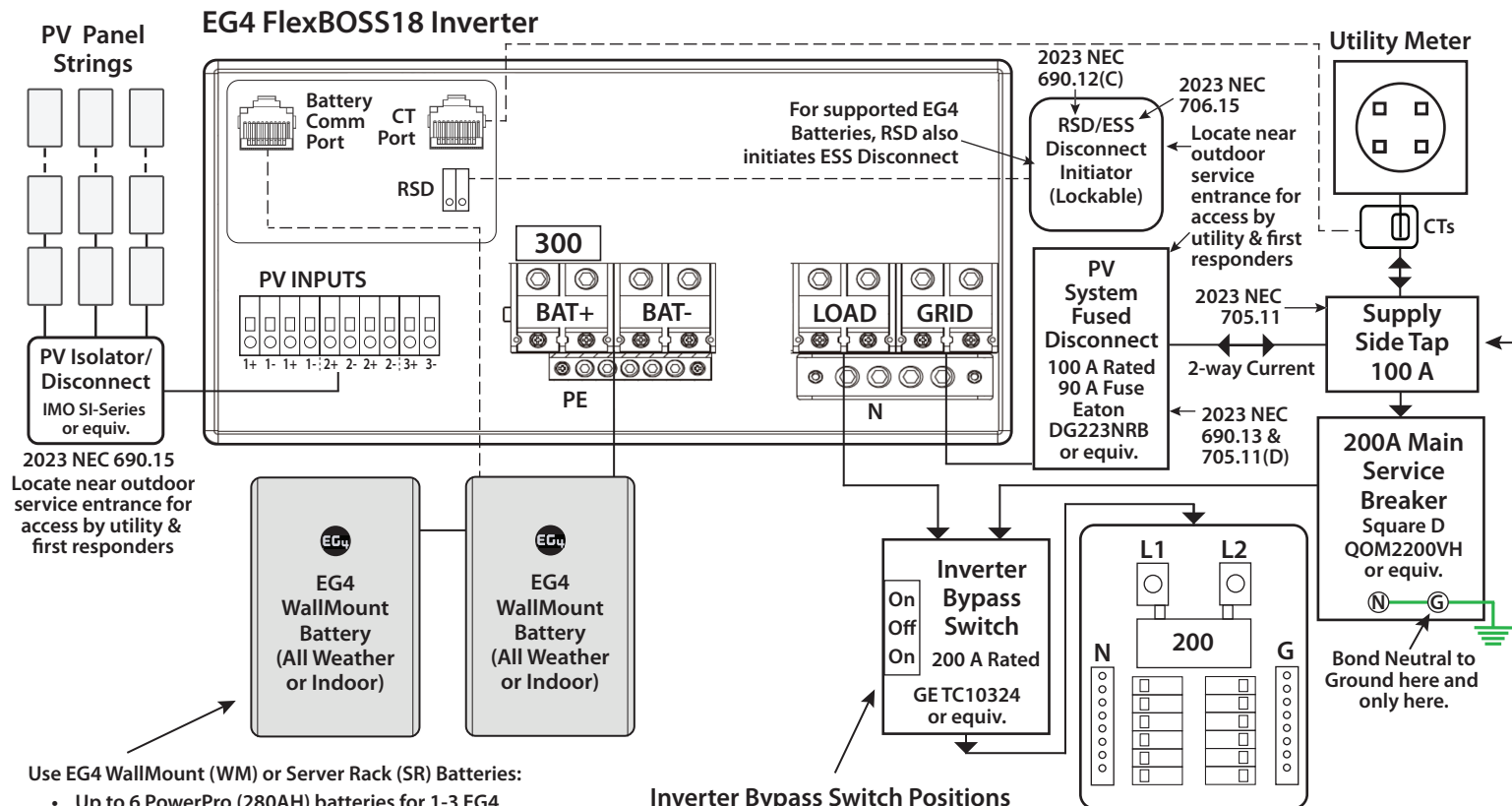


## 7. EG4 FlexBOSS18 with Supply Side Tap and Whole Home Backup

Note that this drawing is provided for legacy purposes only - if you want to do Whole Home Backup we strongly suggest you replace the Supply Side Tap and the Inverter Bypass Switch in this drawing with an EG4 GridBOSS. It will be less expensive, will take up less wall space and provide superior features including Load Management which is now required by code for ESS backup systems. Multiple inverters are also now very easy to wire and/or add later. See drawings #1 and #2.



## 7a. EG4 FlexBOSS18 with Supply Side Tap and Whole Home Backup (with Notes)



Use EG4 WallMount (WM) or Server Rack (SR) Batteries:

- Up to 6 PowerPro (280AH) batteries for 1-3 EG4 Inverters can utilize internal bus bars with no need for external bus bars or fusing.
- Up to 12 standard Server Rack batteries in 2 EG4 6-high racks can utilize the rack bus bars with no need for external bus bars or fusing.

For larger battery configurations:

- Utilize "Disable Shared Battery" mode to avoid excessive battery cabling and to avoid paralleling more than 6 batteries.
- If you must use an external bus bar then use a fused positive battery bus bar rated  $\geq 250$  Amps per inverter using Class-T fuses and use a negative battery bus bar or power distribution block rated  $\geq 250$  Amps per inverter.

### Inverter Bypass Switch Positions

On	When Grid is available, Solar and Battery power the loads with Utility pass-thru as needed. Excess power is sold back to utility if settings allow. When Grid goes down, loads instantly are backed up.
Off	Main Breaker Panel is off. Battery charging from PV and Grid and Utility sell-back are still active.
On	When Grid is available, Solar and Battery power the loads (thru sell-back to SST) with Utility sourced as needed. Excess power is sold back to utility if settings allow. When Grid goes down, Loads are not backed up. User must throw switch to top position to utilize inverter backup power.

### Main Breaker Panel

By providing an Inverter Bypass Switch as shown, Whole Panel or Whole Home Backup can be achieved negating the need for a critical loads subpanel while allowing easy installation and servicing of the inverter. However, to do full Whole Home Backup a 2nd and possibly 3rd inverter may be required. See EG4 Design Guides. A single inverter can energize the whole panel but heavy loads should be shed during grid outages. The down position on the Inverter Bypass Switch is recommended if using only one inverter and no smart loads. Users will then notice grid is down and will need to go into a more frugal use mode before turning on backup.

Note that this drawing is provided for legacy purposes only - if you want to do Whole Home Backup we strongly suggest you use an EG4 GridBOSS. It will be less expensive, will take up less wall space and provide superior features including Load Management which is now required by code for ESS backup systems. See drawings #1 and #2.

**SUPPLY SIDE TAPS** - If your Service Entrance has a 200 A rated Main Panel bus and a 200 A Main Breaker and therefore cannot use a 60 or 70 A Backfed Breaker (see Backfed Breaker diagram) then a Supply-Side Tap may be your solution for point of utility interconnection.

Supply Side Taps allow you to feed the full pass-through capability of the inverter to either your critical loads subpanel or to a transfer switch back to the Main Breaker Panel. Since the FlexBOSS18 has a 200 A pass-through rating you can achieve whole panel or whole home backup. (refer to EG4 Design Guides).

**Caution:** A Supply Side Tap will essentially add loads to your Service Entrance since the FlexBOSS18 adds 50 A to the total house loads with its battery charger. With this increased load there is the very real danger of overloading the Service Entrance conductors if the home is already using the full capacity of a 200 A Service. Do this only under advisement of your electrician and/or Electrical Inspector. Alternatively use a Feeder Tap to mitigate this risk. Feeder taps locate this extra load on the load side of the Main Breaker - thus protecting all Service Entrance Conductors. (See Feeder Tap Diagram).

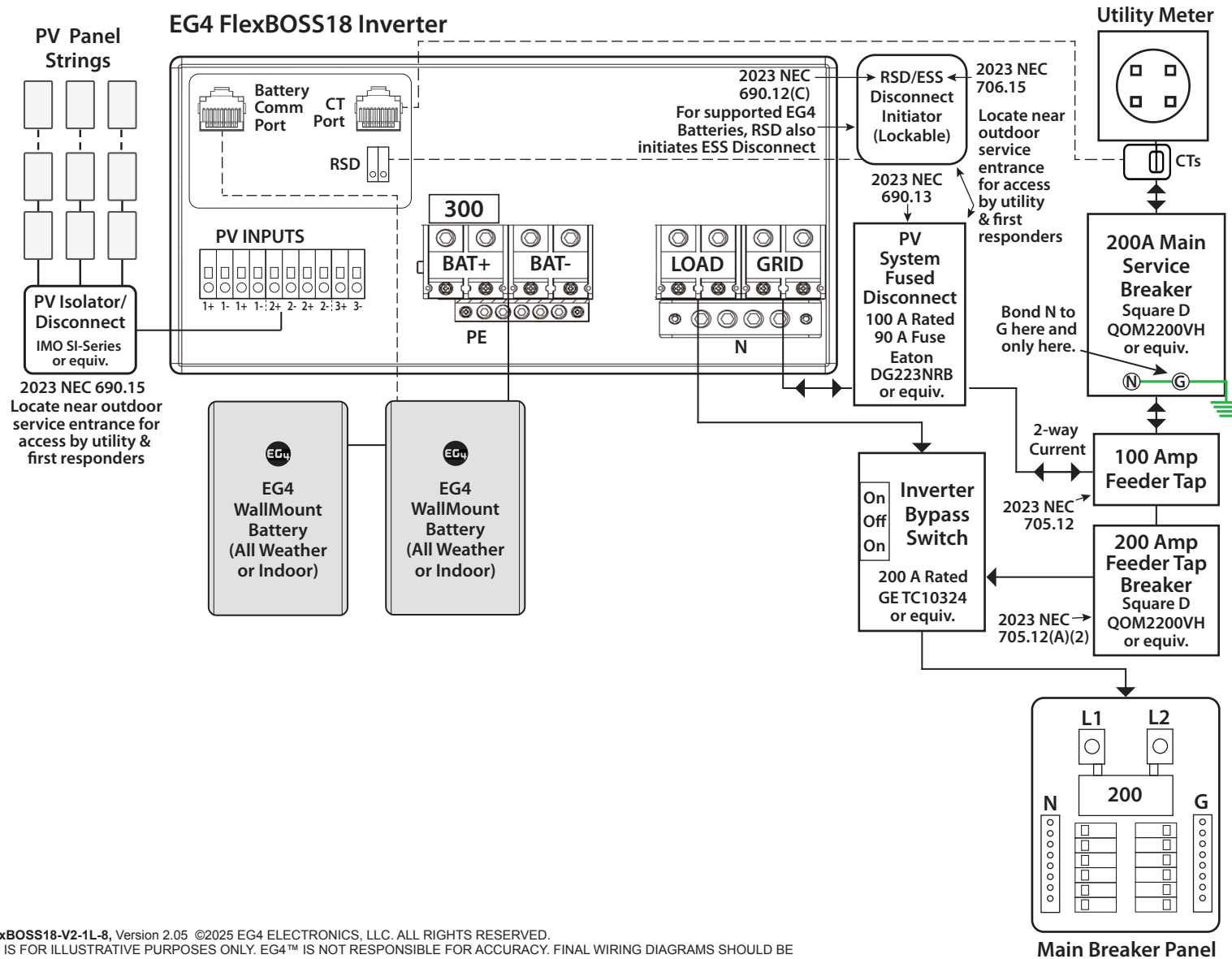
Supply Side Taps should be installed by a professional electrician. Ilco KUP-L-Taps are recommended, but the installer must adhere strictly to installation instructions with proper torque applied (as measured with a torque wrench). Alternatively, a Polaris or Burnby Insulated MultiTap Connector can be used, but these need to be torqued twice - once upon installation and once 24 hours later. Refer to 2023 NEC Code 705.11 and 705.12.

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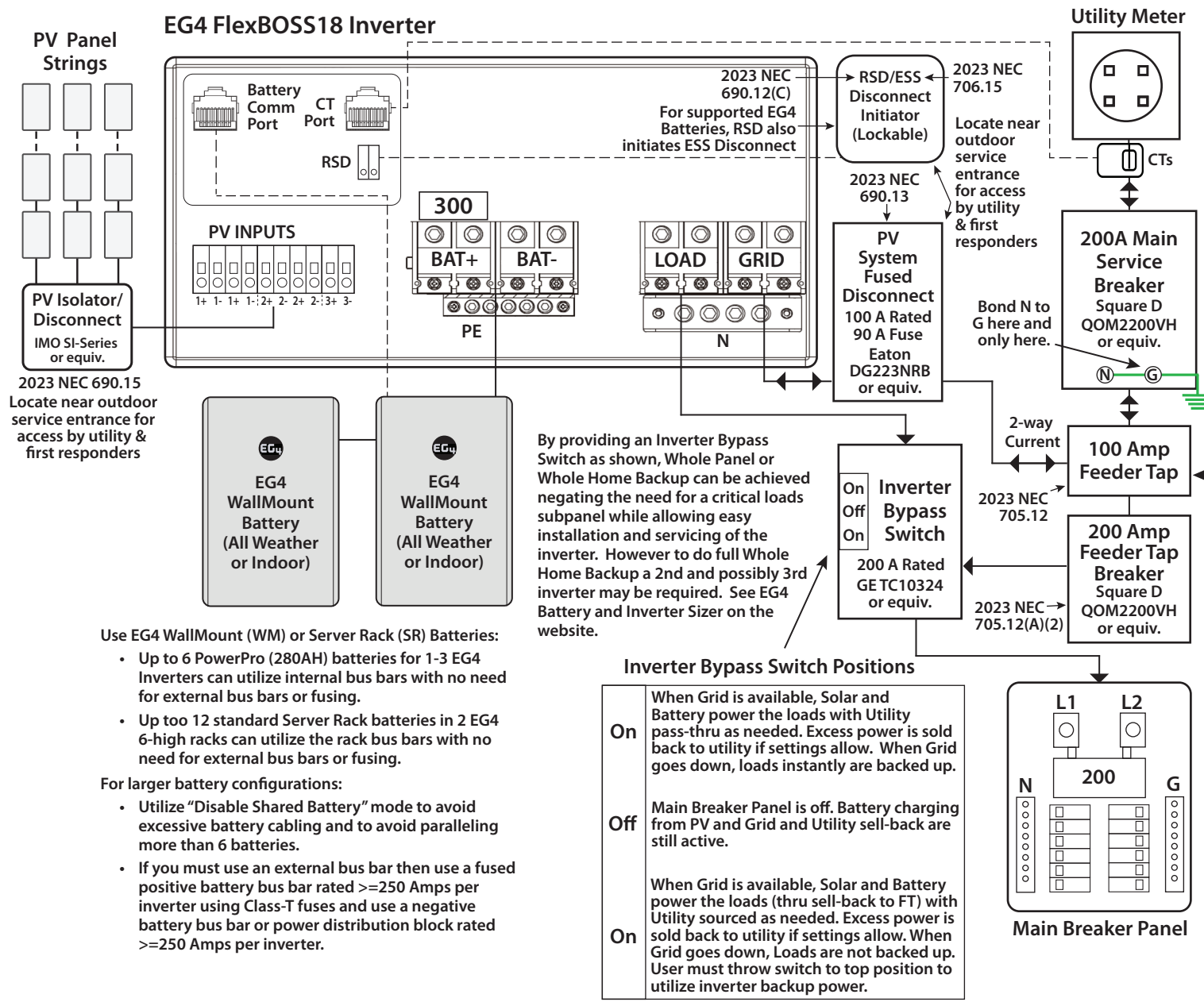
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## 8. EG4 FlexBOSS18 with Feeder Tap and Whole Home Backup

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## 8a. EG4 FlexBOSS18 with Feeder Tap and Whole Home Backup (with Notes)



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FEEDER TAPS ARE THE IDEAL AND SAFEST WAY TO TIE YOUR INVERTER TO THE UTILITY GRID while achieving whole home backup, full solar backfeed, and full battery charging capability while fully protecting your home's wiring. However, Feeder Taps must be installed correctly.

Refer to 2020 NEC Code: 705.12(B)(1&2)

The Main Service Breaker and the Feeder Tap Breaker must be a stand-alone breaker -not a load center. There can be no loads between the Utility Meter and the Feeder Tap. If the Main Breaker Panel has a Main 200 Amp Breaker and it is within 10' of the Feeder Tap then some inspectors will allow omitting the 200 Amp Feeder Tap Breaker. However if this is done the conductors between the Feeder Tap and the Main Breaker Panel - as well as the Inverter Bypass Switch are subject to the combined amperage of the Utility (200 Amps) and the backfeed capability of the Inverter (50 Amps) while only being rated to 200 Amps. It's best to include that breaker as shown.

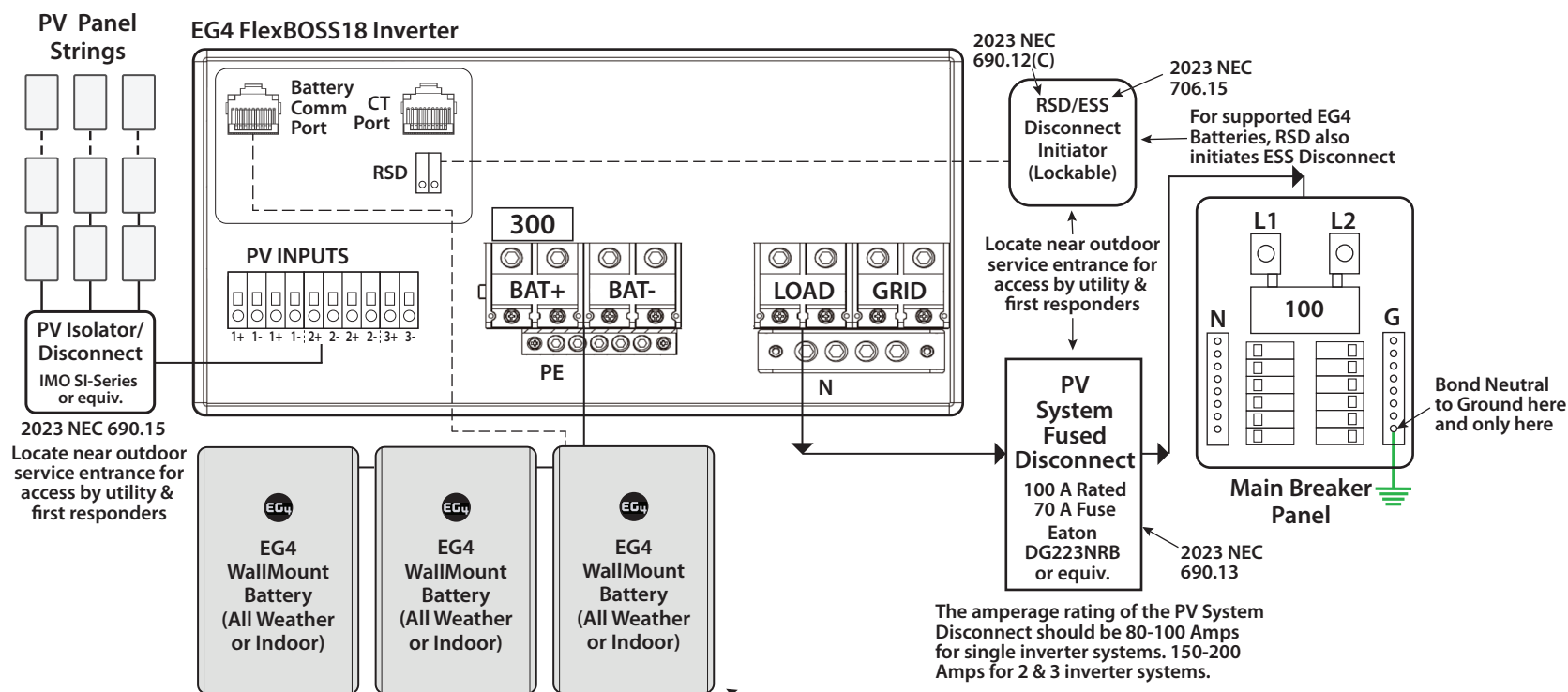
Feeder Taps should be installed by a professional electrician. IlSCO KUP-L-Taps are recommended, but installer must adhere strictly to installation instructions with proper torque applied (as measured with a torque wrench). Alternatively, a Polaris or Burnby Insulated MultiTap Connector can be used, but these need to be torqued twice - once upon installation and once 24 hours later.

## 9. EG4 FlexBOSS18 Off-Grid

**Note: If no utility grid is present or planned then the EG4 6000XP or 12000XP inverters with generator support, AC Coupling support and Smart Load support may be a better choice for Off-Grid use.**

## FlexBOSS18 AC Specs

MAX. CONTINUOUS DISCHARGE RATE	10kW
MAX. APPARENT POWER	13kW (54A @240V) 11.2kW (54A @208V)
MAX. CONTINUOUS CURRENT @ 45°C	54A
MAX. CONTINUOUS DISCHARGE W/ PV & GRID ONLY @ 45°C	10kW   13kW
POWER FACTOR (OUTPUT)	0.6 – 1.0
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## FlexBOSS18 PV DC Inputs

# OF MPPTS   # OF STRINGS PER MPPT	2/2
MAX. CURRENT PER MPPT	26A/26A
MAX. SHORT-CIRCUIT CURRENT RATING PER MPPT	31A/31A
MAX. PV INPUT VOLTAGE	600 VDC
MPPT VOLTAGE RANGE	120V – 440 VDC
UNIT STARTUP VOLTAGE	200 VDC

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