

EG4® 280Ah INDOOR BUILDABLE CONDUIT BOX

INSTALL GUIDE



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PDF
 Adobe DEL #: CS-280-BD-IN-XY

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1. ABBREVIATIONS

- AWG – American Wire Gauge
- A – Amps
- Ah – Amp hour(s)
- AC – Alternating Current
- AFCI – Arc-Fault Circuit Interrupter
- AHJ – Authority Having Jurisdiction
- kAIC – kilo-Amp Interrupting Capability
- ANSI – American National Standards Institute
- BAT – Battery
- BMS – Battery Management System
- COM – Communication
- CT – Current Transformer
- DC – Direct Current
- DIP – Dual In-line Package
- DOD – Depth of Discharge
- EG – Equipment Ground
- EGS – Equipment Grounding System
- EMC – Electromagnetic Compatibility
- EPS – Emergency Power System
- ESS – Energy Storage System
- E-Stop – Emergency Stop
- FCC – Federal Communication Commission
- GE – Grounding Electrode
- GEC – Grounding Electrode Conductor
- GFCI – Ground Fault Circuit Interrupter
- GFDI – Ground Fault Detector/Interrupter
- Imp – Maximum Power Point Current
- IEEE – Institute of Electrical and Electronic Engineers
- IP – Ingress Protection
- Isc – Short-Circuit Current
- In-lbs. – Inch Pounds
- kW – Kilowatt
- kWh – Kilowatt-hour
- LCD – Liquid Crystal Display
- LFP – Lithium Iron Phosphate
- L1 – Line 1
- L2 – Line 2
- mm – Millimeters
- MPPT – Maximum Power Point Tracking
- mV – Millivolt
- N – Neutral
- NEC – National Electric Code
- NEMA – National Electrical Manufacturers Association
- NFPA – National Fire Prevention Association
- Nm – Newton Meters
- NOCT – Normal Operating Cell Temperature
- PC – Personal Computer
- PCB – Printed Circuit Board
- PE – Protective Earth
- PPE – Personal Protective Equipment
- PV – Photovoltaic
- RSD – Rapid Shut Down
- SCC – Standards Council of Canada
- SOC – State of Charge
- STC – Standard Testing Conditions
- UL – Underwriters Laboratories
- UPS – Uninterrupted Power Supply
- V – Volts
- VOC – Open-Circuit Voltage
- VMP – Voltage Maximum Power

2. BRIEF DESCRIPTION

The EG4® Indoor Buildable Conduit Box allows users a simple and effective way to protect cables and connections between battery and inverter. The conduit box is designed to pair the EG4 WallMount Indoor 280Ah Lithium Battery with either the EG4 FlexBOSS21, 18kPV Hybrid, 12kPV Hybrid, 6000XP Off-Grid, or the 12000XP Off-Grid Inverter*.



*NOTE:

When using the 12000XP Off-Grid Inverter, the optional 12000XP conduit box top plate (sold separately) will be used instead of the normal top plate.

3. PACKING LIST

The items listed below will arrive with the product shipment:



Disassembled Indoor Buildable
Conduit Box (6 pcs)
Total Weight: 14.70 lbs. (6.66 kg)



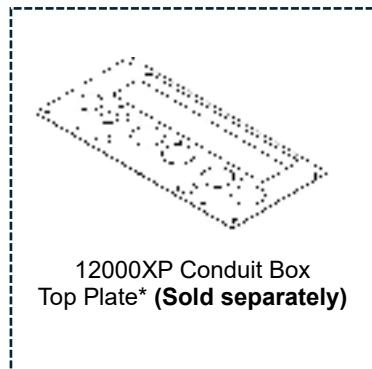
M6 x 1.0 Phillips
Flat Head Screw
(x10)



M6 x 1.0 Phillips Hex Head Screw
w/ Washer set (x4)



M6 x 1.0 Phillips Hex Head
Screw w/ Washer set (x4)
(for battery mounting)



12000XP Conduit Box
Top Plate* (**Sold separately**)



Rotating Cover

GLW-M63	Qty 4
GLW-M50	Qty 1
GLW-G 1	Qty 2
GLW-PG21	Qty 2



Grommets

RSB-28	Qty 2
RSB-35	Qty 2
RSB-50	Qty 1
RSB-63	Qty 4

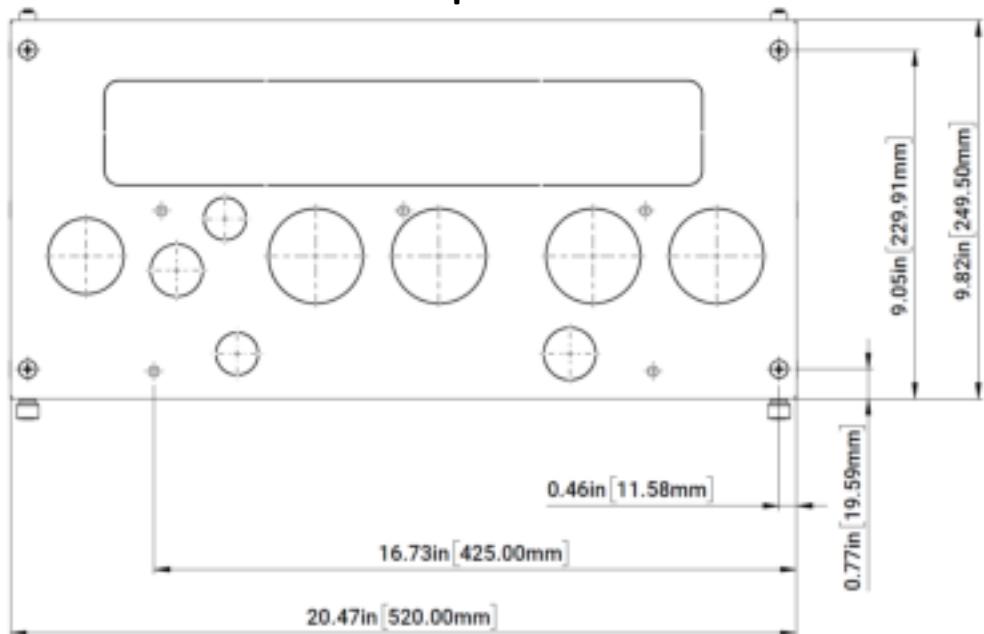
4. TOOLS NEEDED

- Phillips head screwdriver
- 10 mm socket and ratchet
- Proper PPE (Personal Protective Equipment)

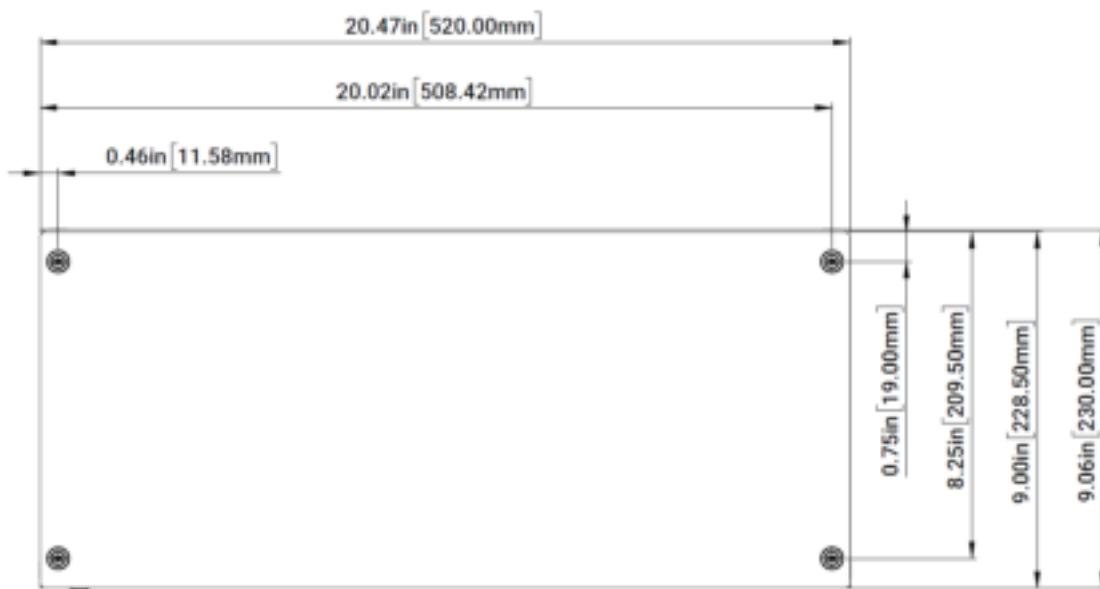
5. CONDUIT BOX KNOCKOUT/HOLE PATTERNS & SCHEMATICS

5.1 EXTERIOR DIMENSIONS

Top View

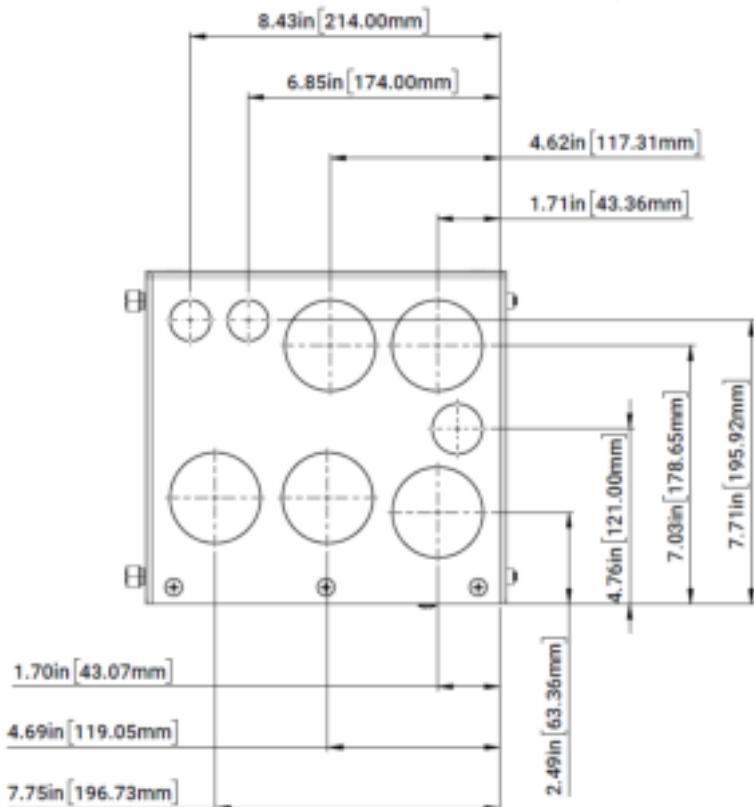


Front View

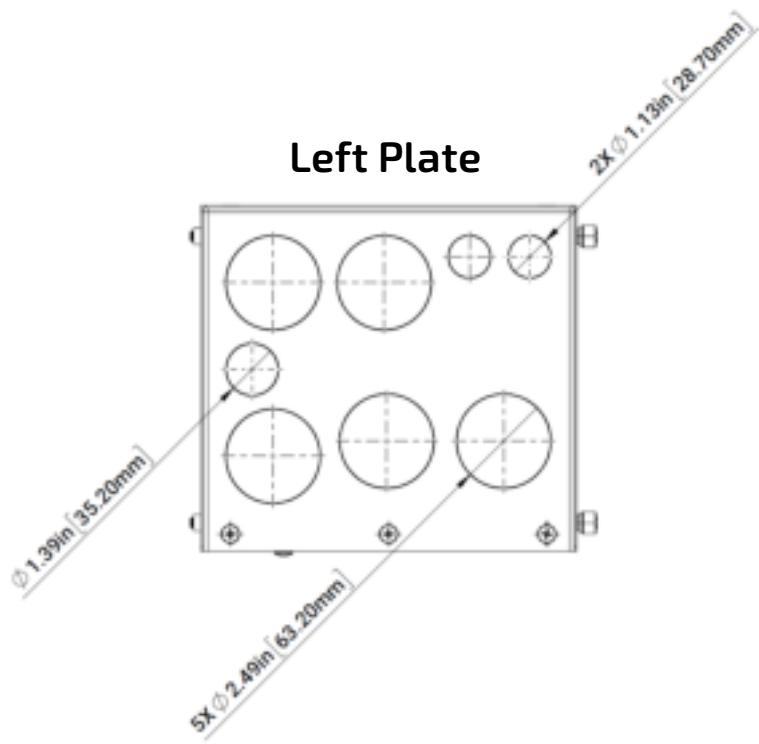


5.2 RIGHT & LEFT SIDE PLATE KNOCKOUT DIMENSIONS

Right Plate

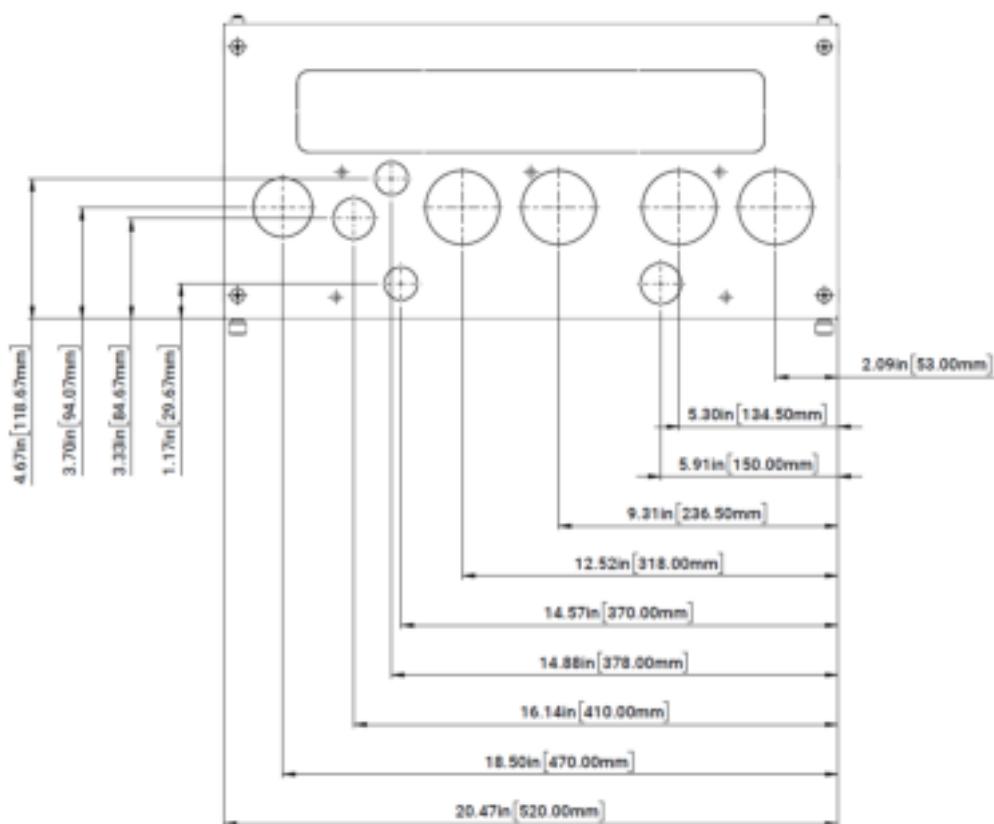
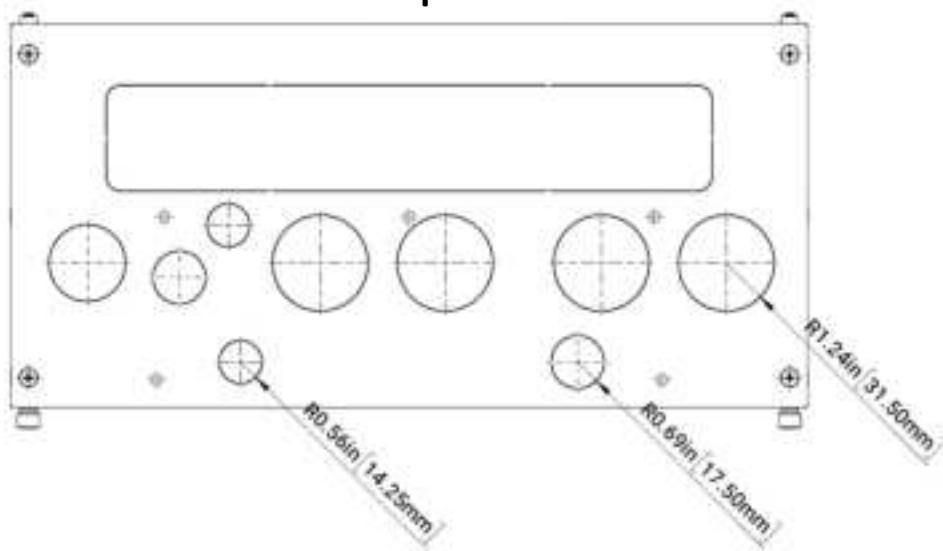


Left Plate



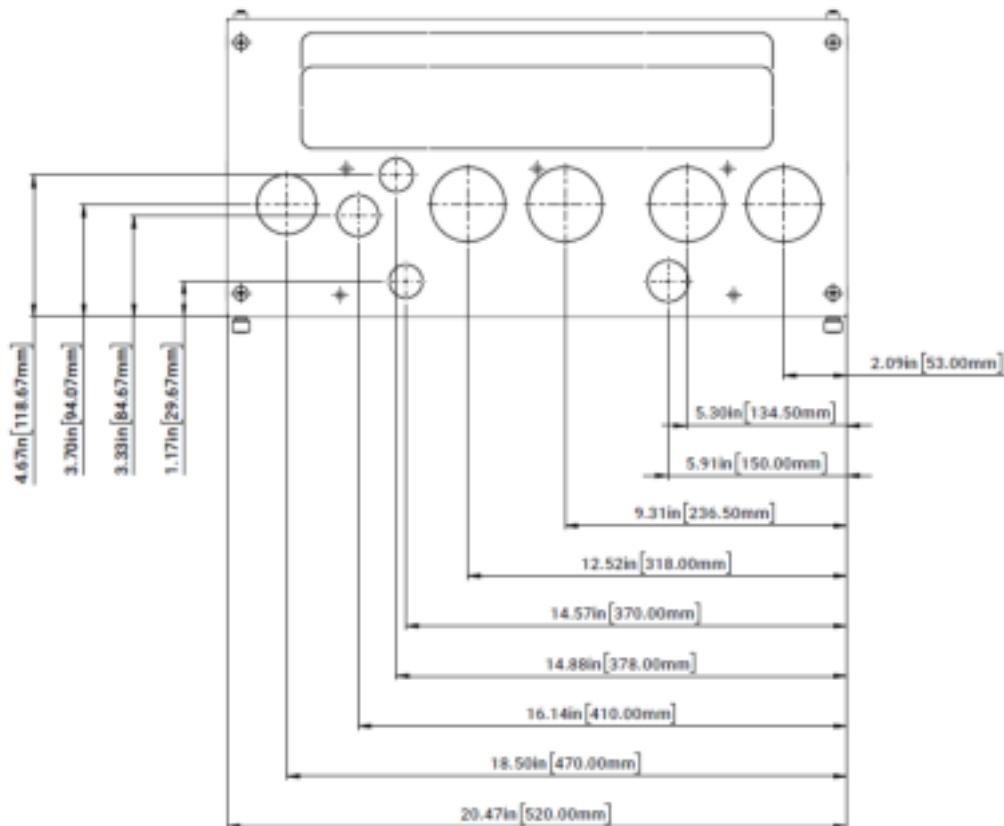
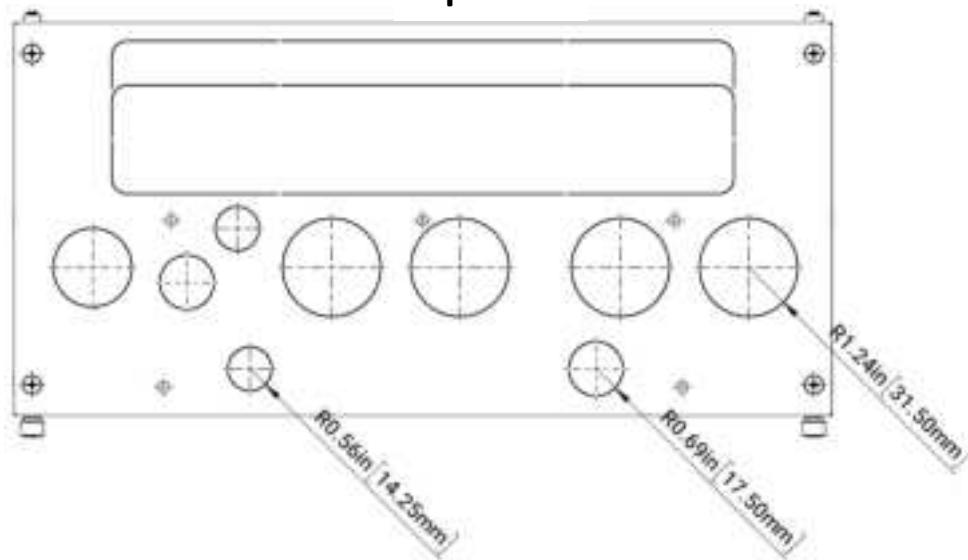
5.3 TOP PLATE KNOCKOUT DIMENSIONS

Top Plate



5.4 12000XP TOP PLATE* KNOCKOUT DIMENSIONS

Top Plate

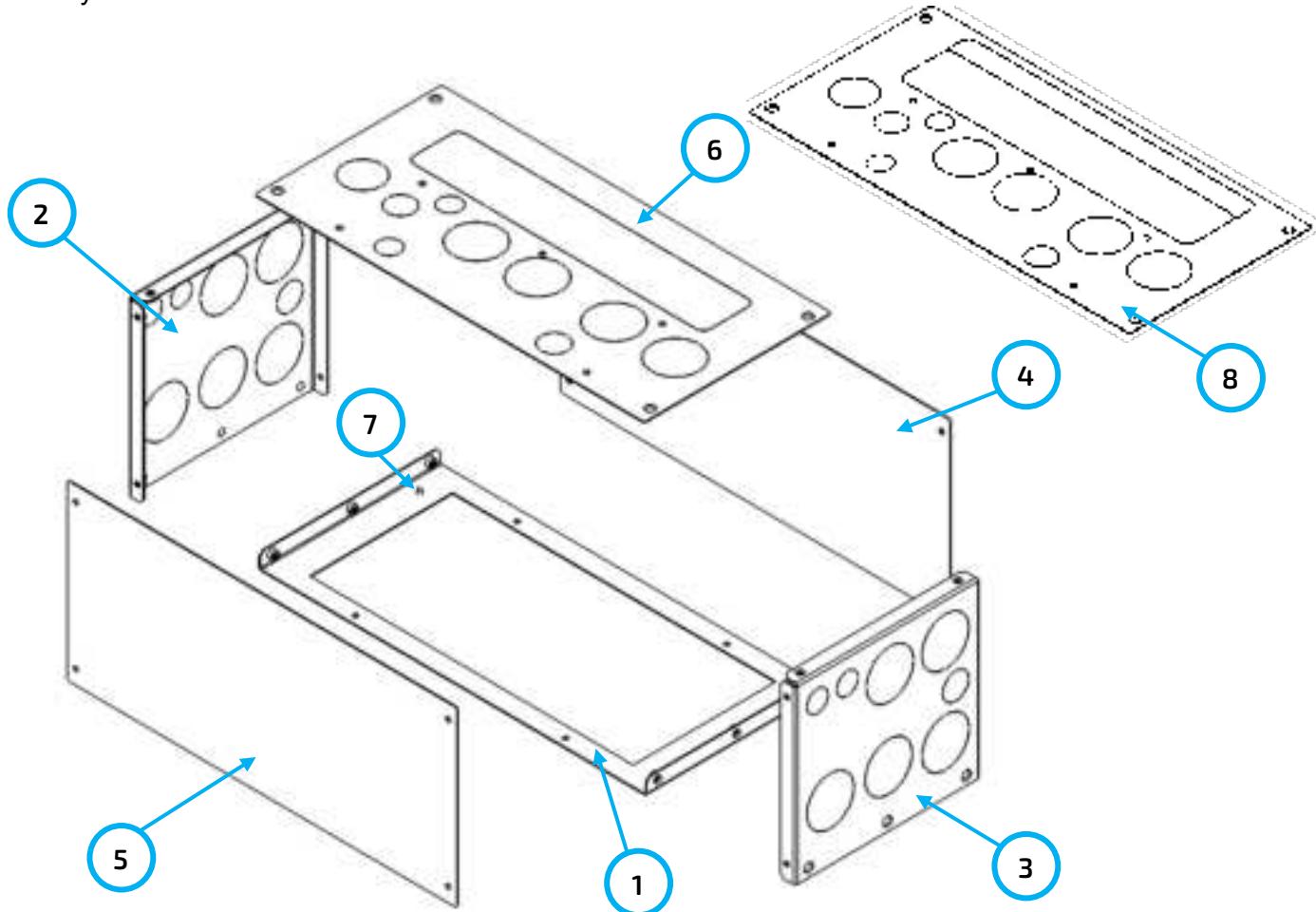
***NOTE:**

When using the 12000XP Off-Grid Inverter, the optional 12000XP conduit box top plate will be used instead of the normal top plate.



6. CONDUIT BOX ASSEMBLY

The Indoor Buildable Conduit Box is a highly recommended accessory to enclose all battery cables for added protection and safety. The conduit box holds the wiring that runs between the inverter and the battery.



No.	Item
1	Bottom Plate
2	Left Side Plate
3	Right Side Plate
4	Back Plate
5	Front Plate
6	Top Plate
7	Ground Screw and Wire
8	12000XP Top Plate*

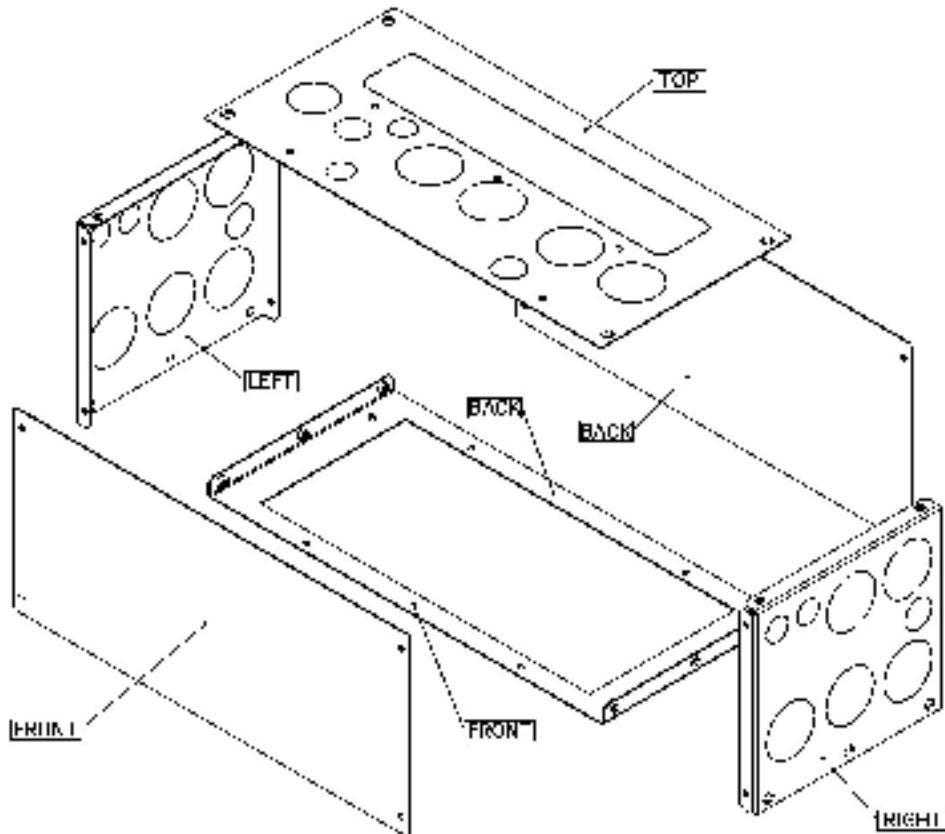


*NOTE:

When using the 12000XP Off-Grid Inverter, the optional 12000XP conduit box top plate will be used instead of the normal top plate.



NOTE: Bottom plate should have the GROUND screw and wire (labeled 7 in the image above) to the back left when viewing the front for assembly.



***NOTE:**

When using the 12000XP Off-Grid Inverter, the optional 12000XP conduit box top plate will be used instead of the normal top plate.

1. Starting with the bottom plate (labeled 1 in the image), ensure the ground screw and wire are securely fastened. Align the left-side plate (labeled 2) with the holes on the bottom plate. Attach the left-side plate using three of the included M6 x 1.0 Phillips flat head screws.
2. Locate the right-side plate (labeled 3), align with the holes in the bottom plate. Attach to the bottom plate using three of the included M6 x 1.0 Phillips flat head screws.
3. Locate the back plate (labeled 4), align and attach using four of the M6 x 1.0 Hex head screw with washer set. Install the M6 x 1.0 Hex head screw with washer set going from the inside of the box to the outside.
4. Locate the front plate (labeled 5), align and attach using the pre-installed thumbscrews.
5. If pairing with the 12000XP Off-Grid inverter*, proceed to the next step. Locate the top plate (labeled 6), align with holes on top of the left and right-side plates. Attach the top plate using four of the included M6 x 1.0 Phillips flat head screws.
6. Locate and use the 12000XP conduit box top plate* to ensure correct alignment of knockouts. Align with the holes on top of the left and right-side plates. Attach the 12000XP conduit box top plate using four of the included M6 x 1.0 Phillips flat head screws.
7. Use the remaining four M6 x 1.0 Hex head screw with washer set to mount the conduit box to the battery.

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NOTES



CONTACT US

support@eg4electronics.com

(903) 609-1988

www.eg4electronics.com