



**BPC635-01
PPBC40100 BATTERY CABINET
USER MANUAL**



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CHAPTER 1 – SAFETY WARNINGS

Read the following safety information carefully before you install or operate the BPC PPBC40100 Battery Cabinet equipment and keep this manual within easy access of the equipment for future reference.

1.1 DESCRIPTION OF SYMBOLS USED IN THIS MANUAL



WARNING: The warning symbol is used where there is danger of an electrical shock, equipment damage or personal-injury.



CAUTION: The caution symbol is used to highlight important information to avoid possible equipment malfunction or damage.

1.2 BATTERY SAFETY



WARNING: The battery is not isolated from the mains voltage. Hazardous voltage may occur between the battery terminals and ground.



WARNING: A battery can present a risk of electric shock or burn from high short circuit currents. Always take the following precautions when working on batteries:

- Remove watches, rings or other metal objects.
- Use tools with insulated handles.



WARNING: The PPBC40100 system uses recyclable batteries:

- The batteries contain lead and pose a hazard to the environment and human health if not disposed of properly.
- If you replace the batteries you must dispose of the used batteries in accordance with local environmental laws and regulations.



WARNING: Heed the following warnings concerning battery handling:

- Do not dispose of batteries in a fire. The batteries may explode.
- Do not open or mutilate the batteries. They contain an electrolyte which is toxic and harmful to the skin and eyes.
- If electrolyte comes into contact with the skin, the affected area should be washed immediately with clean flowing water.
- The internal energy source (the battery) cannot be de-energized by the user.

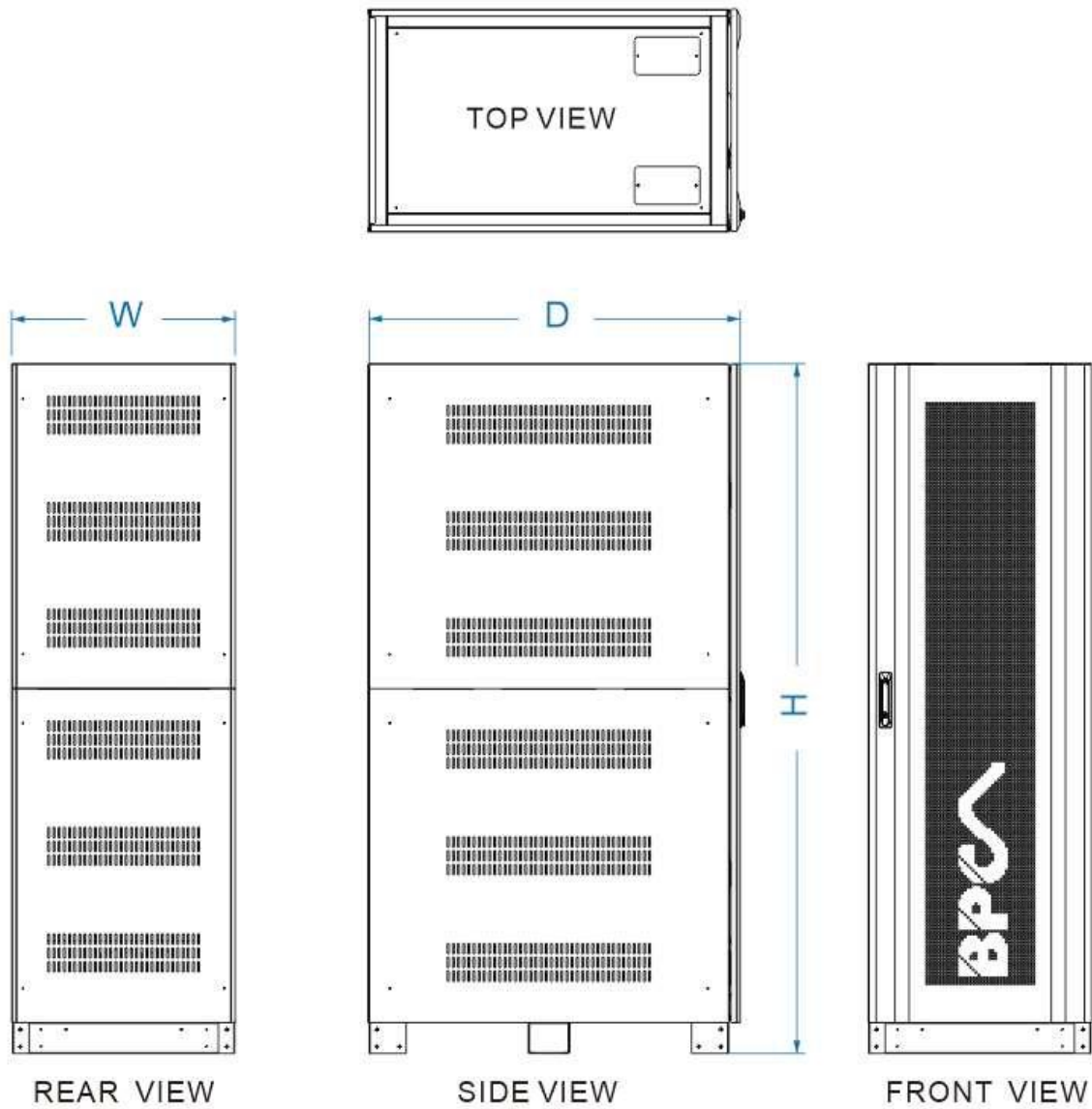


WARNING: When changing the batteries, install the same number and same type of batteries.

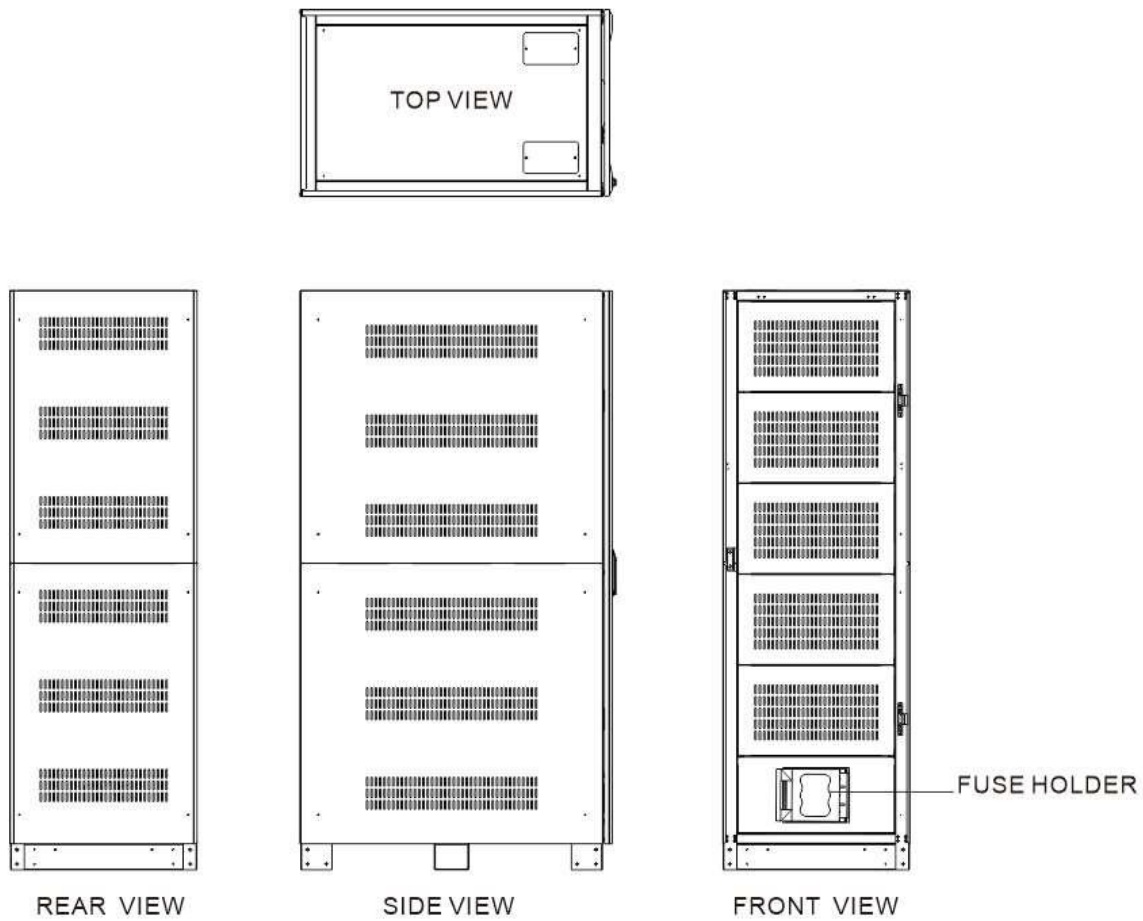
CHAPTER 2 – OVERVIEW

2.1 MECHANICAL INFORMATION

- Dimension : 1080 mm(D)*647 mm(W)*2010 mm(H)
- Empty Cabinet Weight :260 Kgs



2.2 FUSE HOLDER



There are two variants of fuse systems for the PPBC40100 cabinets:

UPS - 3 POLE FUSING

NH00 Fuse holder with 160A DC rated fuses

EMRGENCY LIGHTING – 3 POLE FUSING WITH 120V FUSE SEPERATION

22 x 58 Fuse holder with 100A DC rated fuses

CHAPTER 3 – POWER RATING

The Battery cabinet is designed for multiple battery combinations for UPS installations:

Battery +/-	Total Blocks	Total End of discharge voltage	DC current rating (DCA)	AC load Rating based on 1.65 (KW)	AC load Rating based on 1.7 (KW)
+16 / -16	32	316.8	160	50.7	52.2
+17 / -17	34	336.6	160	53.9	55.5
+18 / -18	36	356.4	160	57.0	58.8
+19 / -19	38	376.2	160	60.2	62.0
+20 / -20	40	396	160	63.4	65.3
+21 / -21	42	415.8	160	66.5	68.5
+22 / -22	44	435.6	160	69.7	71.8
+28 / -28	56	554.4	160	88.7	91.4
+30 / -30	60	594	160	95.0	97.9
Calculation based on DC/AC efficiency at 93%					
Calculation based on Cell discharge voltage of 1.65					

EL SYSTEMS USING +/-20 BLOCKS – 120V SEPERATATION

Battery +/-	Total Blocks	Total End of discharge voltage	DC current rating (DCA)	AC load Rating based on 1.65 (KW)	AC load Rating based on 1.7 (KW)
+20 / -20	40	396	100	39.6	40.8
Calculation based on DC/AC efficiency at 93%					
Calculation based on Cell discharge voltage of 1.65					

CHAPTER 4 – VARIOUS INSTALLATION DESIGNS

The battery cabinet has been designed to hold various battery models and sizes, see below for battery designs:

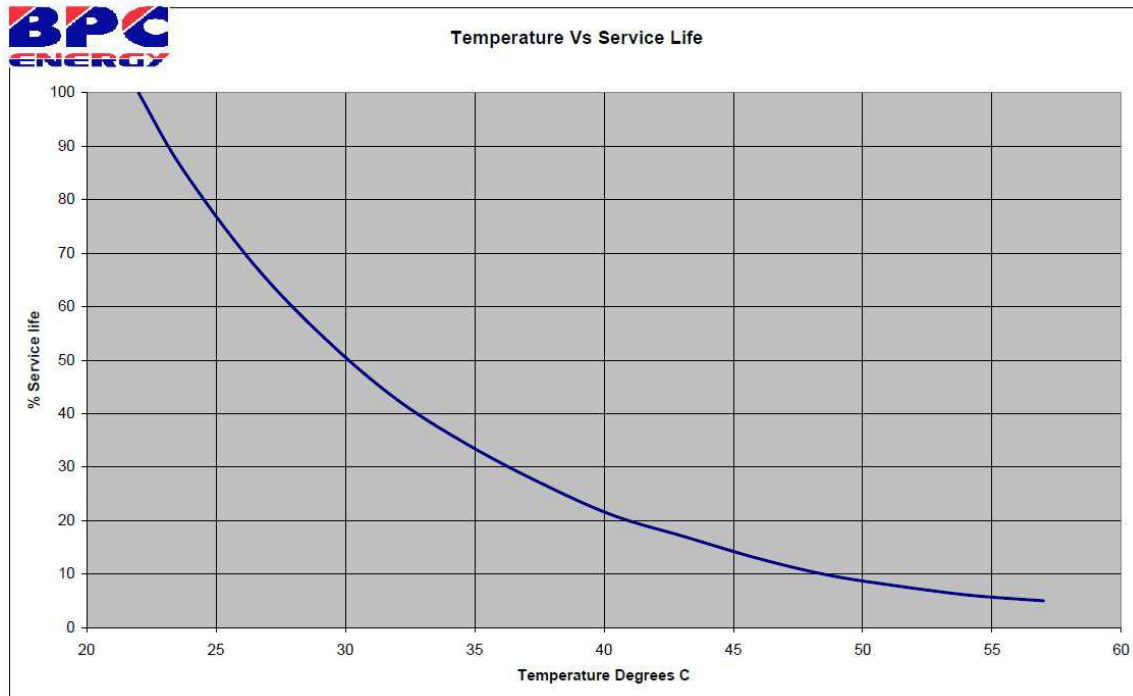
BATTERY DESIGN	BATTERY MODEL	QTY OF BATTERIES	BATTERY CABLE KIT	QTY OF CABINETS	MAX CURRENT
DN2194 – P1	PSLW780	40 (+/-20)	CK-PPBB40100-4	1	160A
DN2194 – P2	PSLW780	60 (+/-30)	CK-PPBB40100-4	1	160A
DN2194 – P3	PSLW1100	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P4	PSLW1100	44 (+/-22)	CK-PPBB40100-2	1	160A
DN2194 – P5	PSLW1100	60 (+/-30)	CK-PPBB40100-4	1	160A
DN2194 – P6	PSLW1500	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P7	PSLW1500	44 (+/-22)	CK-PPBB40100-2	1	160A
DN2194 – P8	PSLW1550	40 (+/-20)	CK-PPBB40100-2 & CK-PPBB40100-2B	1	160A
DN2194 – P9	PSLW1900	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P10	PSLW2400	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P11	PSLW2650	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P12	PSL26-12	40 (+/-20)	CK-PPBB40100-3	1	160A
DN2194 – P13	PSL26-12	60 (+/-30)	CK-PPBB40100-3	1	160A
DN2194 – P14	PSL35-12	40 (+/-20)	CK-PPBB40100-4	1	160A
DN2194 – P15	PSL35-12	60 (+/-30)	CK-PPBB40100-4	1	160A
DN2194 – P16	PSL44-12	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P17	PSL44-12	44 (+/-22)	CK-PPBB40100-2	1	160A
DN2194 – P18	PSL44-12	60 (+/-30)	CK-PPBB40100-4	1	160A
DN2194 – P19	PSL55-12	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P20	PSL55-12	44 (+/-22)	CK-PPBB40100-2	1	160A
DN2194 – P21	PSL70J-12	40 (+/-20)	CK-PPBB40100-1	1	160A
DN2194 – P22	PSL80-12	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P23	PSL100-12	40 (+/-20)	CK-PPBB40100-1	1	160A
DN2194 – P24	PSL110-12	40 (+/-20)	CK-PPBB40100-2	1	160A
DN2194 – P25	PSL70J-12	60 (+/-30)	CK-PPBB40100-5	2	160A
DN2194 – P26	PSL100-12	60 (+/-30)	CK-PPBB40100-5	2	160A
DN2194 – P27	PSL110-12	60 (+/-30)	CK-PPBB40100-6	2	160A
DN2194 – P28	PSL70J-12	40 (+/-20) + 120V SEPERATION	CK-PPBB40100-7	1	100A
DN2194 – P29	PSL80-12	40 (+/-20) + 120V SEPERATION	CK-PPBB40100-8	1	100A
DN2194 – P30	PSL100-12	40 (+/-20) + 120V SEPERATION	CK-PPBB40100-8	1	100A
DN2194 – P31	PSL110-12	40 (+/-20) + 120V SEPERATION	CK-PPBB40100-8	1	100A

CHAPTER 5 – POSITIONING

5.1 ENVIRONMENT

The battery will produce a small amount of hydrogen and oxygen at the end of charging. Therefore, it must be ensured that the fresh air ventilation of the battery installation environment meets the requirements of EN 50172-2012 electrical installation, battery construction and acceptance specifications. Ambient temperature is a major factor affecting battery capacity and life. Under normal circumstances, the ambient temperature allowed by the battery is within 5 °C 35 °C.

However, temperatures above 22 °C will dramatically affect the life of the battery, see chart below for service life against temperature:



Temperatures below 15°C will affect the autonomy of the battery, therefore reduced runtimes will occur.

The ambient temperature of the battery should be constant. The optimum temperature is 20-22 °C. The battery should be away from the heat source and the main vent.

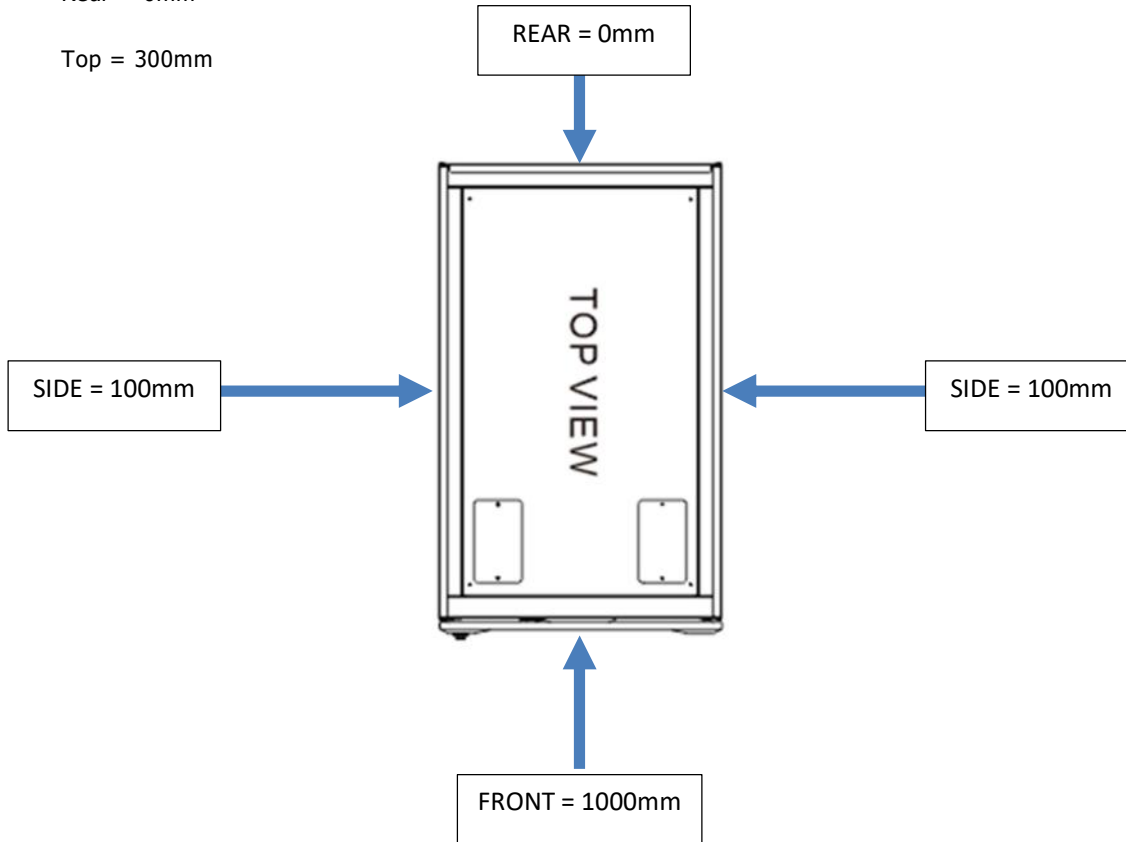
5.2 CLEARANCE

Front = 1000mm

Side = 100mm

Rear = 0mm

Top = 300mm



5.3 STORAGE

If immediate installation not required, you must store the Batteries with original packing indoors, to avoid any damp or overheating. Batteries need to be stored in dry, low temperature, good ventilation, the most suitable storage temperature is 20°C to 25°C.



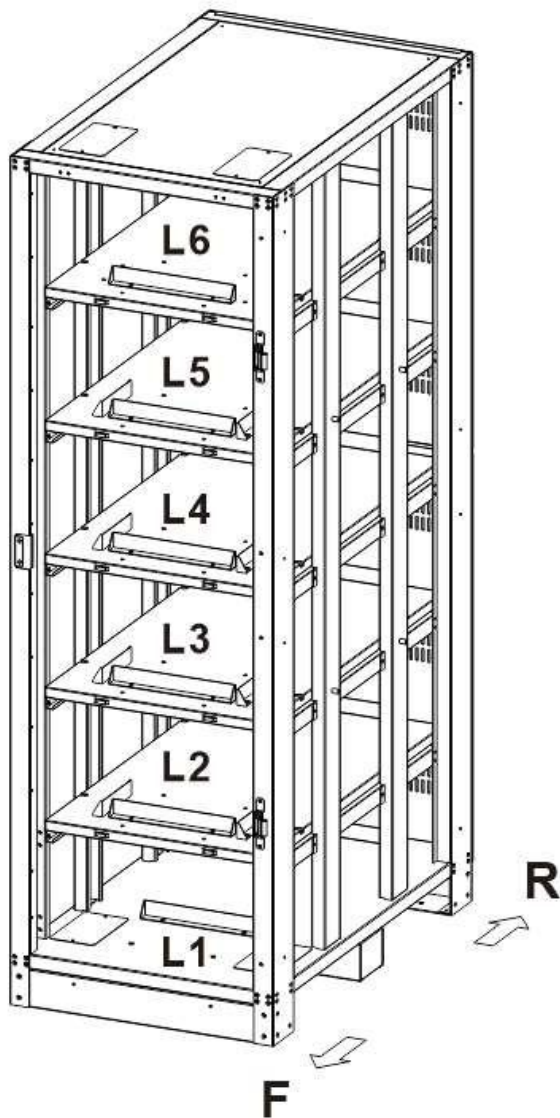
WARNING: The battery should be periodically charged according to the battery manufacturer's instructions.

CHAPTER 6 – INSTALLATION

This chapter provides details of the battery installation.

6.1 INITIAL

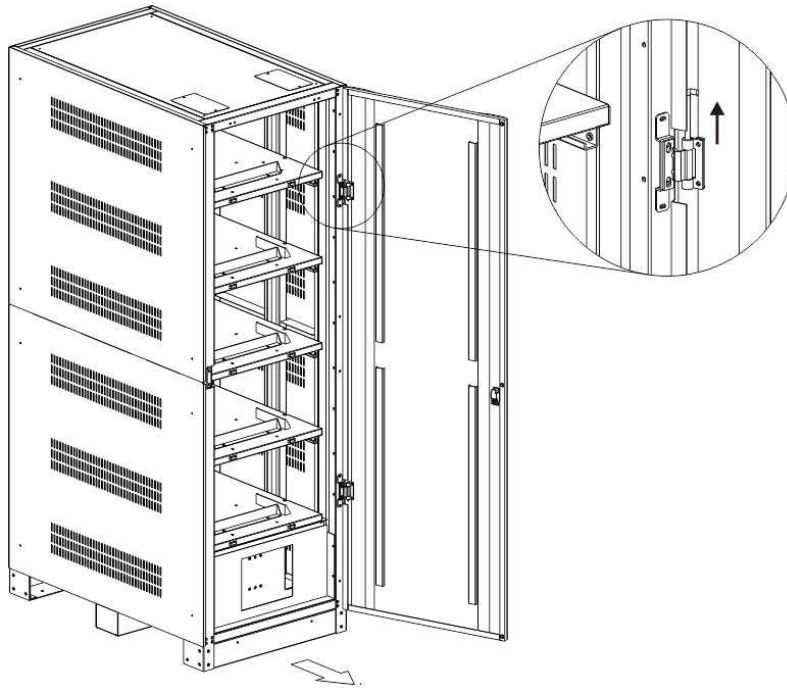
There are 6 battery levels within the battery cabinet marked Level 1 (L1) to Level 6 (L6)



6.2 INSTALL

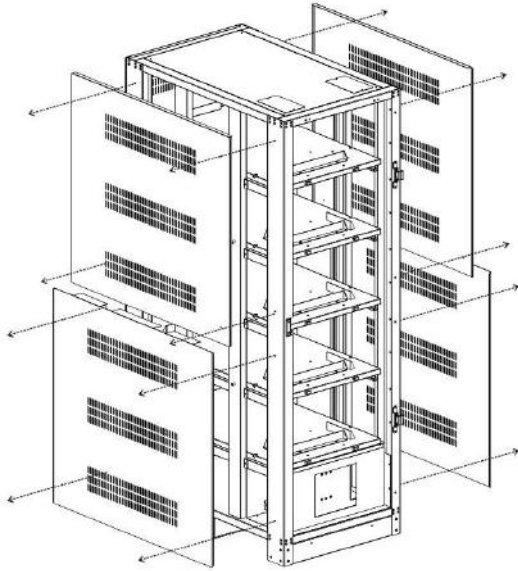
6.2.1 STEP 1 – REMOVE FRONT DOOR AND INTERNAL PANELS

Pull out the latch from door hinge then remove the front door.



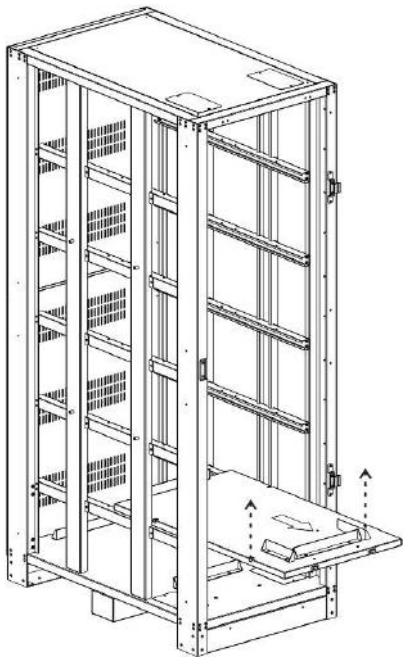
6.2.2 STEP 2 – REMOVE SIDE COVERS

Unscrew the M4 screws (16 pcs) by cross screwdriver and then remove the side panels. This is only required if access to sides is necessary – the cabinet is designed to be built from front only.



6.2.3 STEP 2 – REMOVE BATTERY SHELVES

Unscrew all the M6 screws (20 pcs) from each battery shelves and remove all battery shelves from cabinet.

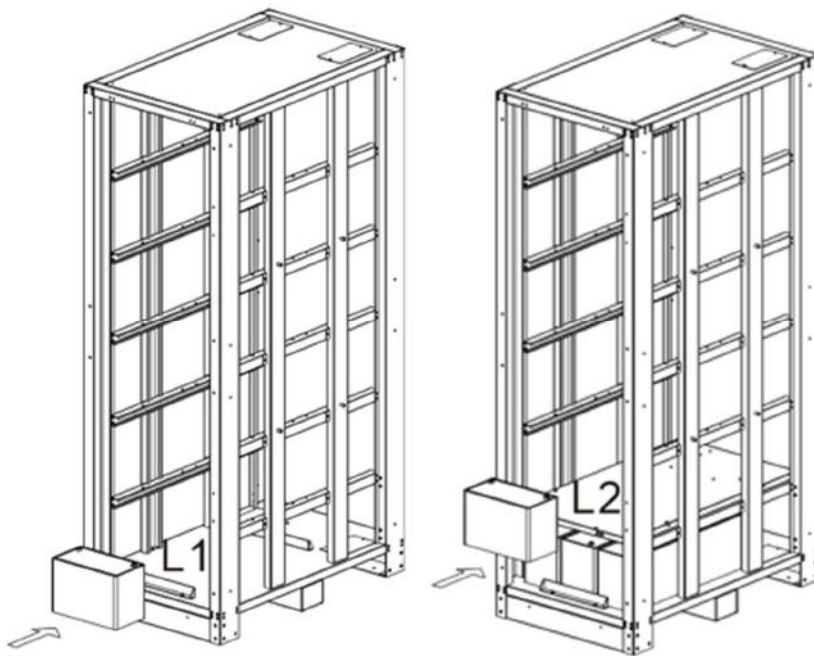


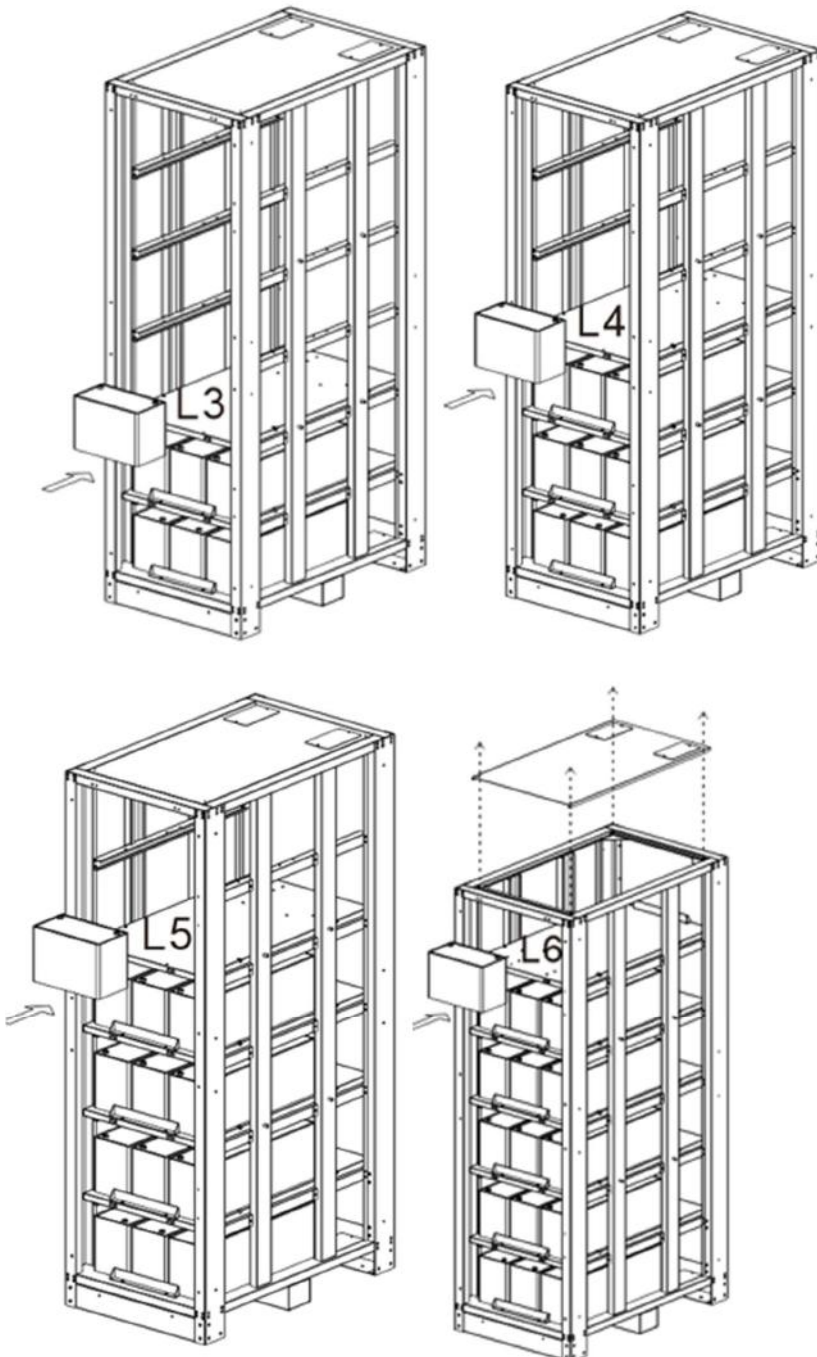
6.2.4 STEP 4 – INSTALL DC FUSE SYSTEM

Within the cable kit is provided fuse holder for the cabinet, install the fuse holder to the lower section of the cabinet as per the drawings.

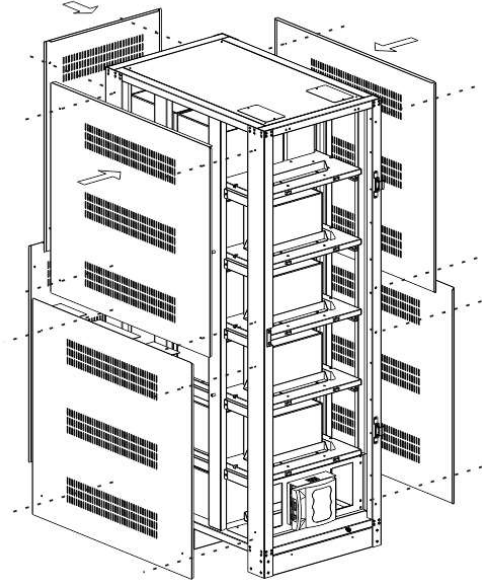
6.2.5 STEP 4 – INSTALL BATTEREIS TO BOTTOM SHELF (L1)

Install batteries from bottom shelf and then insert shelves and build upwards, follow battery build drawing shown in end of the user manual:

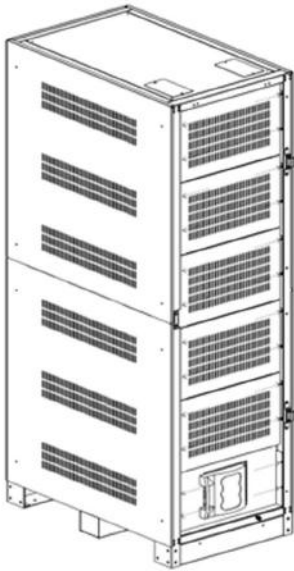




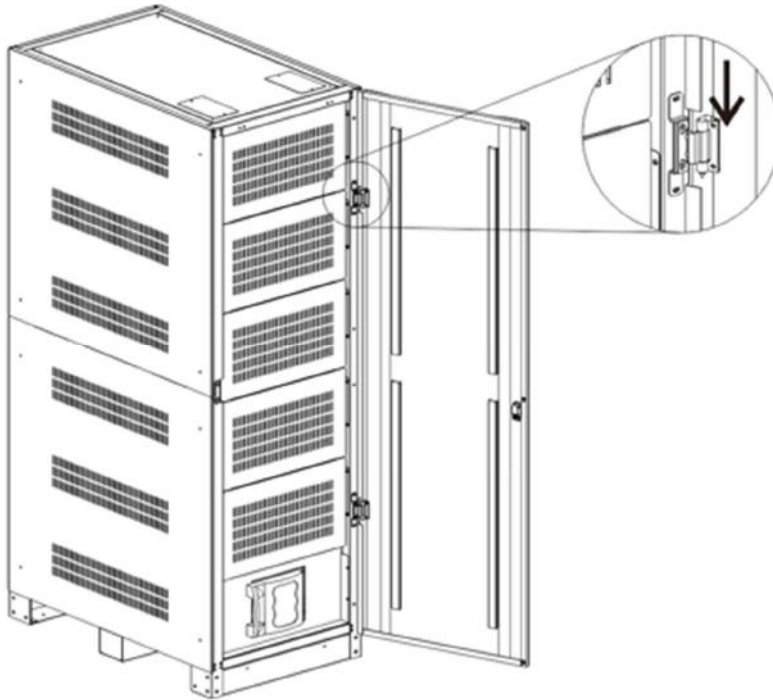
6.2.6 STEP 5 – INSTALL SIDE PANELS



6.2.7 STEP 6 – INSTALL FRONT COVERS



6.2.8 STEP 7 – INSTALL FRONT DOOR



CHAPTER 7 – WARRANTY TERMS

7.1 BATTERY WARRANTY CONDITIONS

The Warranty is subject to the following conditions:

- a) The Product must have been installed, charged, discharged, stored, used and maintained in accordance with the “BPC013 Battery Installation Manual” and the battery Specifications.
- b) The Warranty Period for any Product which has been installed in an environment where the temperature exceeds 20°C shall be proportionately reduced by fifty percent (50%) for every 8°C increase in temperature above 20°C. Operation or storage of the Product for any length of time in an environment having a temperature above 45°C will void the Warranty.
- c) A Product will not be considered defective or nonconforming if it has delivered at least eighty percent (80%) of its rated capacity during the Warranty Period. This will be determined by recharging the battery for 48 hours, then discharging and measuring the amount of Watts used versus the Watts capacity of the battery.
- d) Product must be of proper capacity and size for the intended application.
- e) Warranty does not cover:

Misuse (1), load related failures (2), mains supply related failures (3), abuse (4), neglect (5), mishandling (6), vandalising (7), unauthorised modifications (8), use of BPC non-approved parts (9), operation beyond the limit of design intent (10) including high temperature (11)/humidity (12)/dust (13), improper maintenance (14), accidents (15), Flood (16)/Fire (17) any other natural calamities (18) or other abnormal conditions (19).

f) All battery terminals must be tightened up to the correct torque rating shown in the battery specification. Battery terminals should never be overtightened above the recommended torque setting.

g) Battery must be kept charged at all times. Battery that have been left in a discharged state for more than 72Hrs may self-discharge below a recoverable voltage level. Warranty will be void for batteries that have been left in this condition.

h) Battery must be connected to a suitable charger and activated into float charge mode within 3 months of delivery date.

i) The superimposed effective alternating component of the charge current I_{eff} (rms) should be limited, under float and boost charge conditions, to the values of 5A/100Ah10 in float and 10A/100Ah10 in Boost.

Higher values of AC ripple current will detrimentally affect the life of batteries by generating heat.

The effective current I_{eff} can be measured with an AC clamp-on ammeter or similar.

j) BPC PSLOGGER – For all hardwired systems a BPC PSLOGGER must be installed, 1 per battery cabinet. The PSLOGGER must be set up to continuously record the temp and discharges of a battery. Data must be sent to helpdesk for warranty claim <9Ah.

k) The Warranty shall be void for any Product to the extent that the depth and number of discharges exceed any of the following:

1. 225 Cycles during the Warranty Period with a 30% discharge depth;
2. 185 Cycles during the Warranty Period with a 50% discharge depth;

3. 100 Cycles during the Warranty Period with a 100% discharge depth.

l) All battery blocks in all strings should be of the same model, Ah and manufacturer.

7.2 LIMITATIONS

a) BPC LIABILITY FOR ANY BREACH OF THE WARRANTY IS LIMITED AS SET FORTH IN THE WARRANTY. THE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL BPC PRODUCT BE SUBJECT TO ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL OR CONTINGENT DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO DAMAGES FOR LOST PROFITS OR GOODWILL.

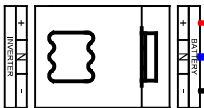
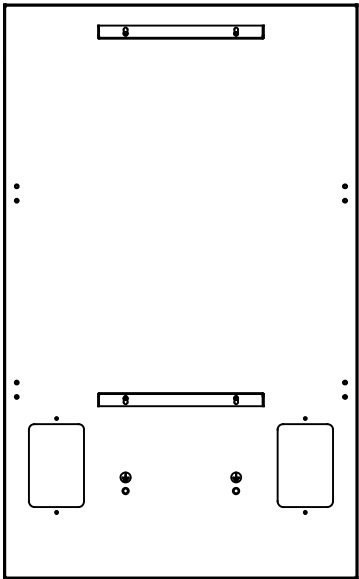
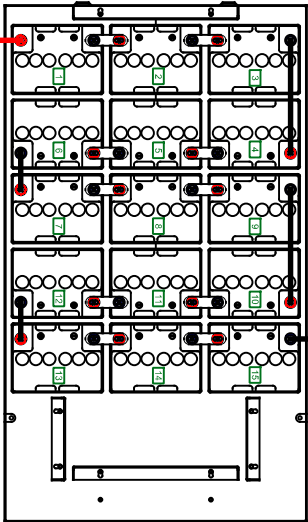
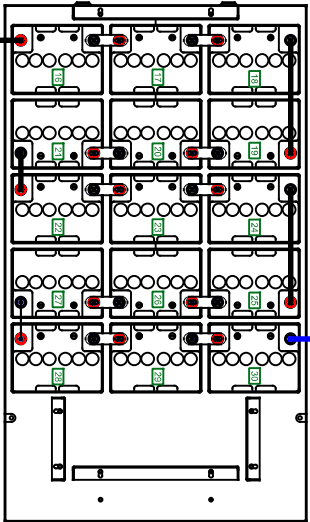
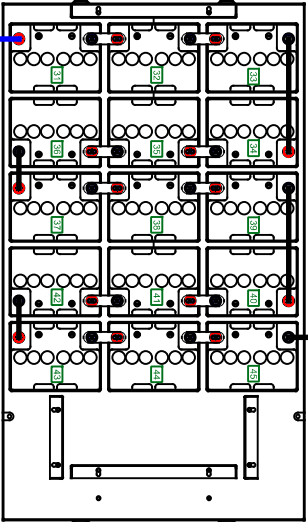
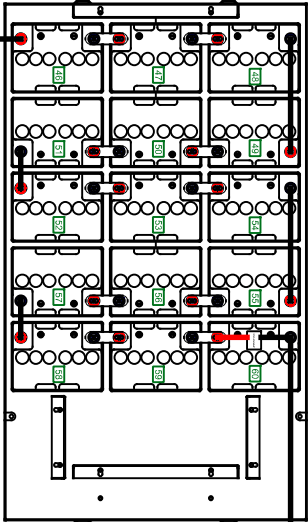
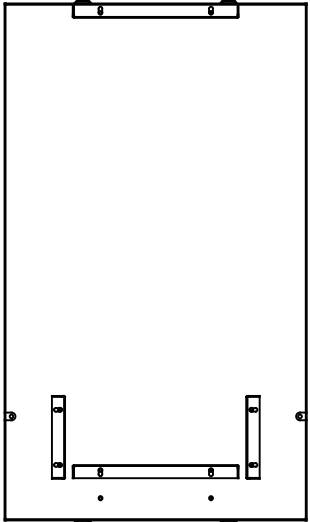
b) BPC makes no warranty and shall have no obligation for any damage to the Product caused by or resulting from abuse, misuse, neglect or any unauthorized repairs, maintenance or alterations of the Product. The preceding paragraphs set forth the exclusive remedies of Customer and/or Sales/Service Partner, for all claims based on a defect in or nonconformity of the Product, whether the defect or nonconformity arises before or during the Warranty Period, and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence and strict liability), or otherwise.

7.3 GOVERNING LAW AND JURISDICTION

a) These terms and conditions and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the law of England and Wales.

b) Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with these terms and conditions or its subject matter or formation.

CHAPTER 8 – BATTERY LAYOUT DRAWINGS



BATTERIES
60 X PS1W780 (26Ah)
L = 165mm X W = 125mm X H = 175mm
WEIGHT PER BLOCK = 7.7kg
TOTAL BATTERY WEIGHT = 462kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CCK-PBPCA10100-4

Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

NO	Size	Description	Tick
1	16mm	DC Cable with M6/M8 Terminals	
2	1500mm	35mm ² Cable with M6/M8 Terminals	
2	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1500mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
3	Meters	Terminals Cable	
15	Meters	Copex 32mm	
1	Meters	PowerStar Temp Logger	
1	0-64	Cable Number Stickers	
4	M6-36 CTT	Copper Tube (Terminals)	
60	Large RED Battery Terminal Strouds		
60	Large BLACK Battery Terminal Strouds		

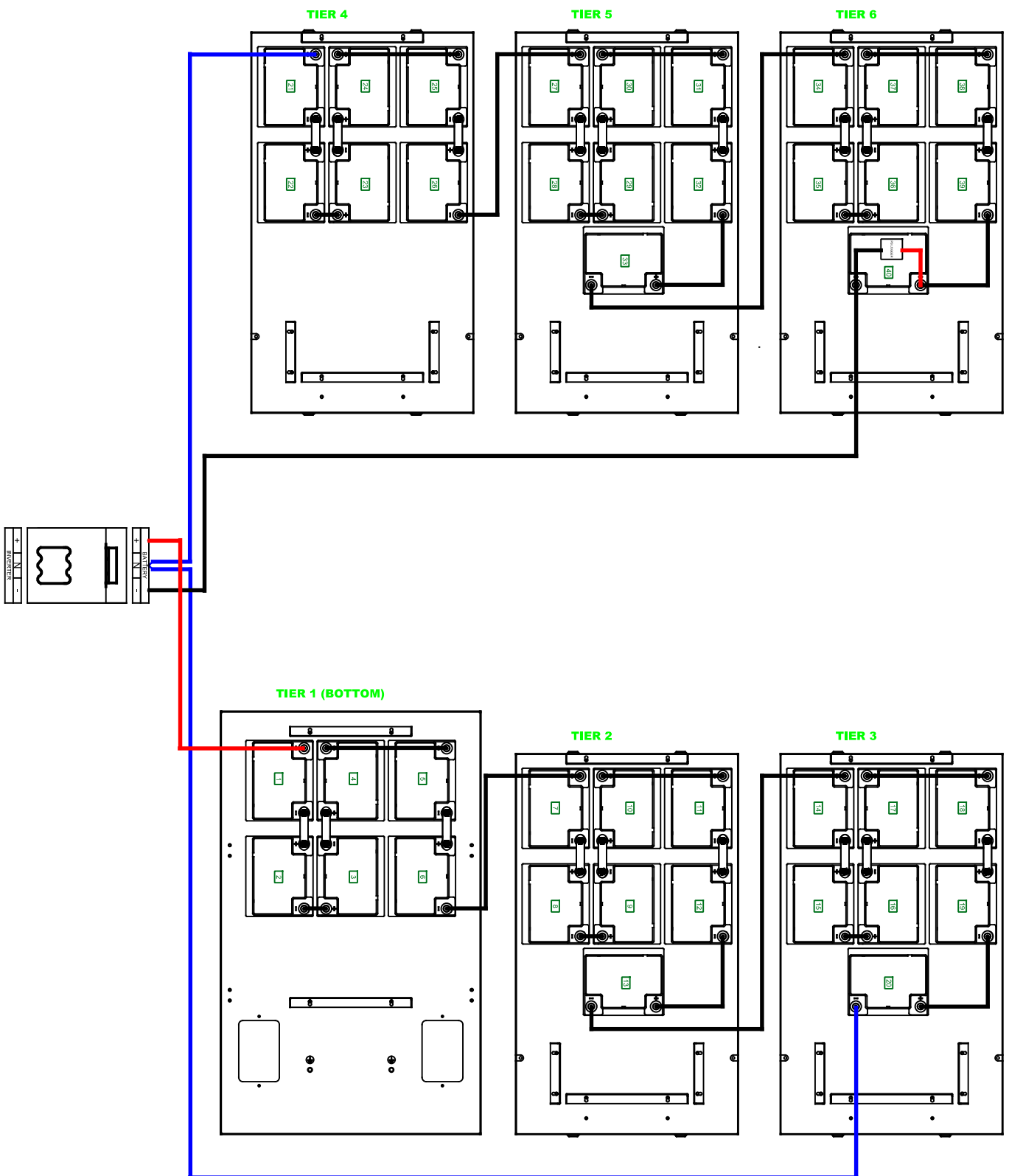
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1				
B1				

BPC Drawing Title	PPBPCA10100 Battery Layout - 60 (x 30) X PS1W780-12
BPC Document No	01
Drawn By	23/10/2024
YOSUP ZAMMAR	23/10/2024
Approved By	23/10/2024
MATT HENLEY	23/10/2024



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Romsey Industrial Estate
Romsey, SO51 0HR
TEL: 01794521200
www.bpc-ups.com



BATTERIES
40 x PSLV100 (40Ah)
L = 197mm X W = 165mm X H = 172mm
WEIGHT PER BLOCK = 13.2kg
TOTAL BATTERY WEIGHT = 528kg

DC CABLES
DC Cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within Plastic colex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kit provided.
If the maximum distances are exceeded extra cost for cable and cable clips will be chargeable.

CABLE KIT PART NUMBER : CK-PPBC40100-2

Max DC Current = 160A

Fuses = NH00 160A

DC Fuse Holder = 3P NH00 FUSE HOLDER

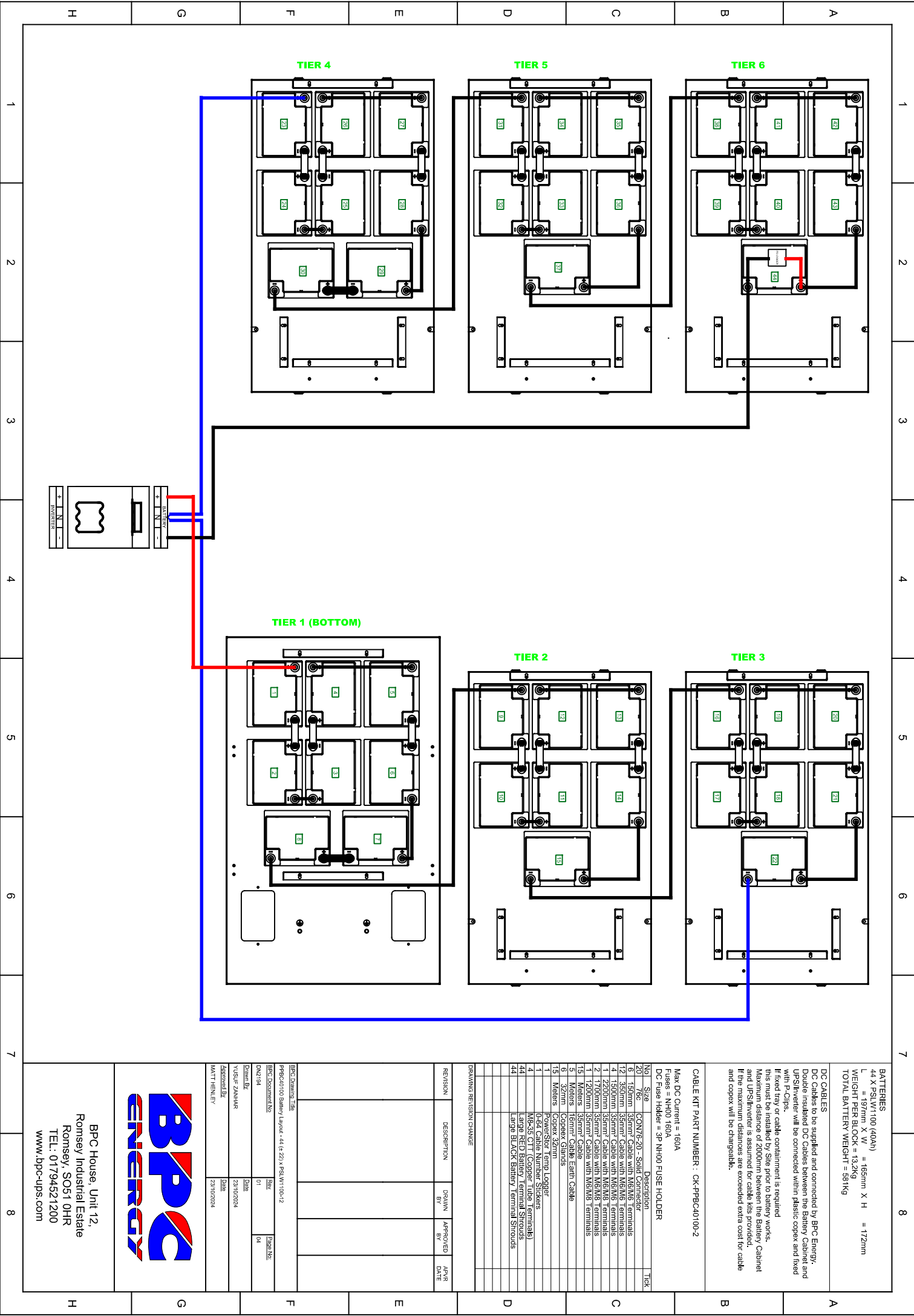
Part Number	Size	Description
16	1/2"	CONTR-20 - Solid Conductor
17	3/16"	35mm ² Cable with M6/M8 terminals
18	3/16"	35mm ² Cable with M6/M8 terminals
19	3/16"	35mm ² Cable with M6/M8 terminals
20	3/16"	35mm ² Cable with M6/M8 terminals
21	2200mm	35mm ² Cable with M6/M8 terminals
22	1700mm	35mm ² Cable with M6/M8 terminals
23	1200mm	35mm ² Cable with M6/M8 terminals
15	Meets	35mm ² Cable with 4mm Cable
16	Meets	CONTR-20 Cable
17	Meets	CONTR-20 Cable
18	Meets	CONTR-20 Cable
19	Meets	CONTR-20 Cable
20	Meets	CONTR-20 Cable
21	Meets	CONTR-20 Cable
22	Meets	CONTR-20 Cable
23	Meets	CONTR-20 Cable
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99	Meets	CONTR-20 Cable
100	Meets	CONTR-20 Cable

DRAWING REVISION CHANGE			
REVISION	DESCRIPTION	DRAWN BY	APPROVED BY

BPC Document Title			
PRB040100 Battery Layout - 40 (E 20) x PSU W100-12			
BPC Document No		Rev	Page No
DN2104		01	03
Created By		Date	
VUSMF_ZAMMAR		23/10/2024	
Approved By		Date	
MATT HEIN, EV		23/10/2024	



**BPC House, Unit 12,
Romsey Industrial Estate
Romsey, SO51 0HR
TEL: 01794521200
www.bpc-ups.com**



BATTERIES
44 X PSLW1100 (40Ah)
L = 197mm X W = 166mm X H = 172mm
WEIGHT PER BLOCK = 13.2kg
TOTAL BATTERY WEIGHT = 581kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and
UPS/Inverter will be connected within plastic copex and fixed
with P-Clips.
If fixed tray or cable containment is required
this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet
and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable
and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-2

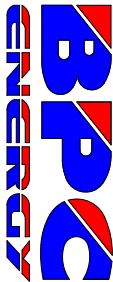
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
1	16mm	CONVE-20 - Solid Conductor	
2	16mm	1500mm 35mm ² Cable with M6/M8 Terminals	
3	16mm	1500mm 35mm ² Cable with M6/M8 Terminals	
4	1500mm	35mm ² Cable with M6/M8 Terminals	
5	1200mm	35mm ² Cable with M6/M8 Terminals	
6	1200mm	35mm ² Cable with M6/M8 Terminals	
7	1200mm	35mm ² Cable with M6/M8 Terminals	
8	1200mm	35mm ² Cable with M6/M8 Terminals	
9	1200mm	35mm ² Cable with M6/M8 Terminals	
10	1200mm	35mm ² Cable with M6/M8 Terminals	
11	1200mm	35mm ² Cable with M6/M8 Terminals	
12	1200mm	35mm ² Cable with M6/M8 Terminals	
13	1200mm	35mm ² Cable with M6/M8 Terminals	
14	1200mm	35mm ² Cable with M6/M8 Terminals	
15	1200mm	35mm ² Cable with M6/M8 Terminals	
16	1200mm	35mm ² Cable with M6/M8 Terminals	
17	1200mm	35mm ² Cable with M6/M8 Terminals	
18	1200mm	35mm ² Cable with M6/M8 Terminals	
19	1200mm	35mm ² Cable with M6/M8 Terminals	
20	1200mm	35mm ² Cable with M6/M8 Terminals	
21	1200mm	35mm ² Cable with M6/M8 Terminals	
22	1200mm	35mm ² Cable with M6/M8 Terminals	
23	1200mm	35mm ² Cable with M6/M8 Terminals	
24	1200mm	35mm ² Cable with M6/M8 Terminals	
25	1200mm	35mm ² Cable with M6/M8 Terminals	
26	1200mm	35mm ² Cable with M6/M8 Terminals	
27	1200mm	35mm ² Cable with M6/M8 Terminals	
28	1200mm	35mm ² Cable with M6/M8 Terminals	
29	1200mm	35mm ² Cable with M6/M8 Terminals	
30	1200mm	35mm ² Cable with M6/M8 Terminals	
31	1200mm	35mm ² Cable with M6/M8 Terminals	
32	1200mm	35mm ² Cable with M6/M8 Terminals	
33	1200mm	35mm ² Cable with M6/M8 Terminals	
34	1200mm	35mm ² Cable with M6/M8 Terminals	
35	1200mm	35mm ² Cable with M6/M8 Terminals	
36	1200mm	35mm ² Cable with M6/M8 Terminals	
37	1200mm	35mm ² Cable with M6/M8 Terminals	
38	1200mm	35mm ² Cable with M6/M8 Terminals	
39	1200mm	35mm ² Cable with M6/M8 Terminals	
40	1200mm	35mm ² Cable with M6/M8 Terminals	
41	1200mm	35mm ² Cable with M6/M8 Terminals	
42	1200mm	35mm ² Cable with M6/M8 Terminals	
43	1200mm	35mm ² Cable with M6/M8 Terminals	
44	1200mm	35mm ² Cable with M6/M8 Terminals	

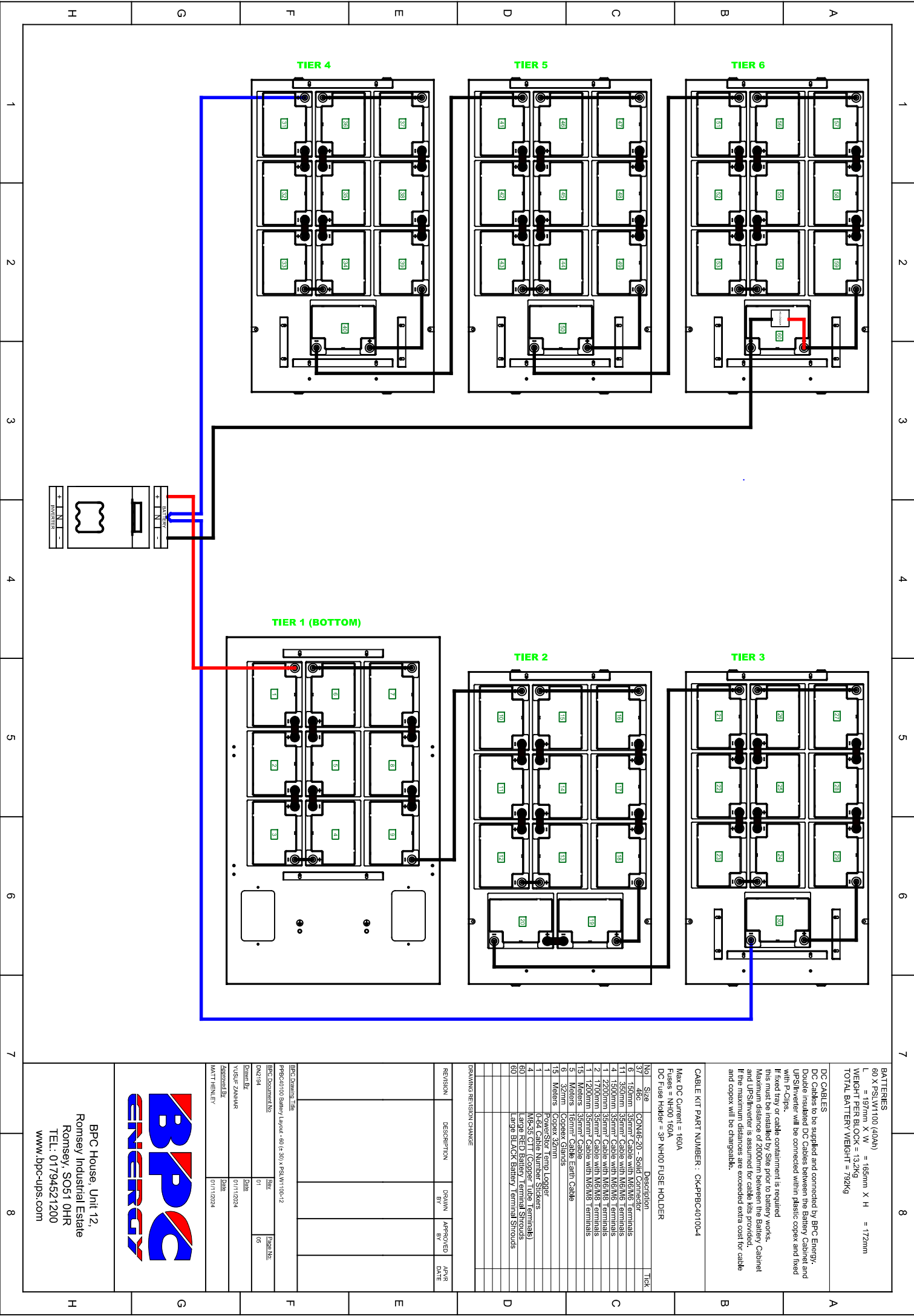
DRAWING REVISION CHANGE

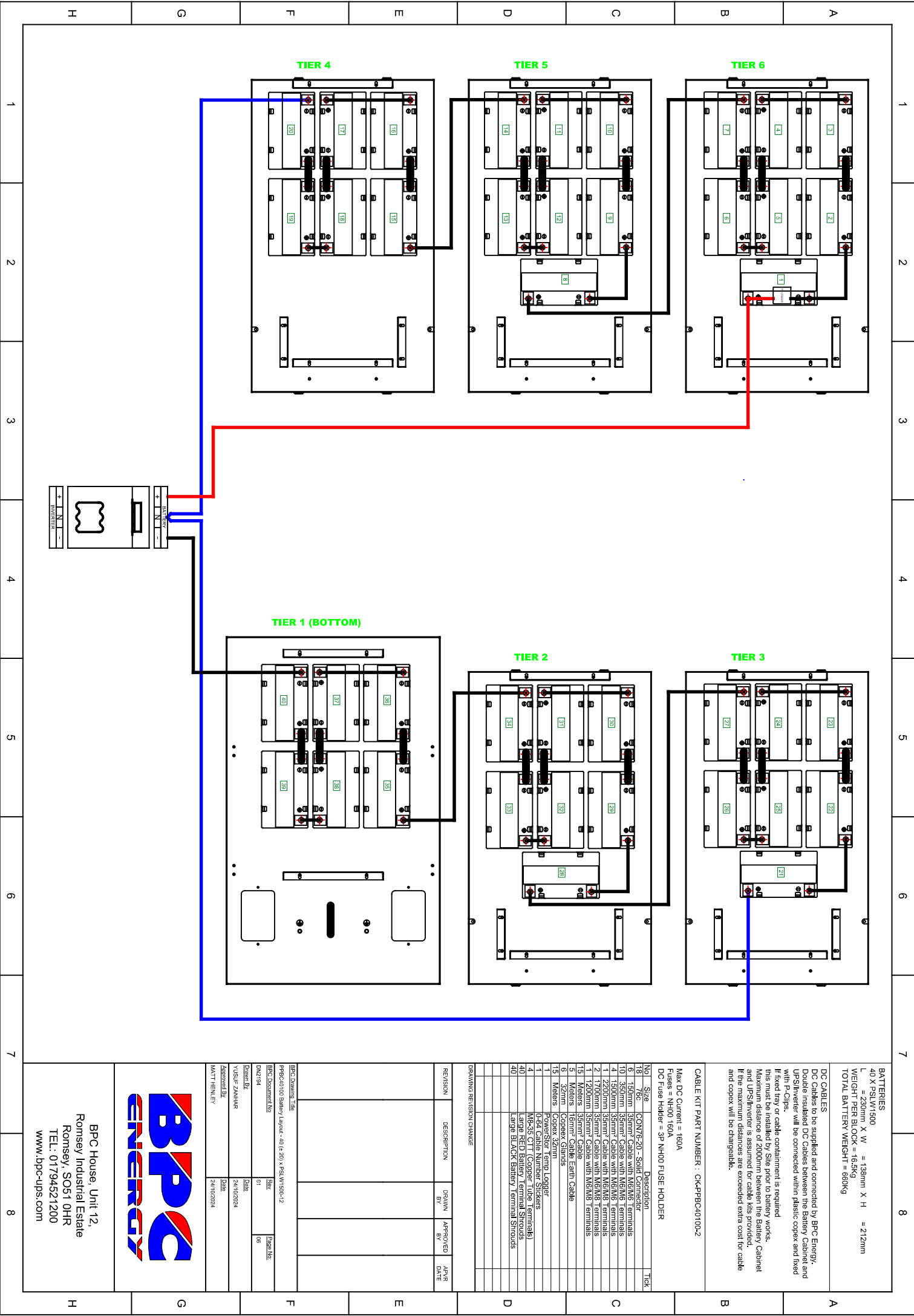
REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
1		B1	B1	

BPC Drawing Title	FPBC40100 Battery Layout - 44 (x 22) X PSLW1100-2
BPC Document No	01
Drawn By	23/10/2024
Checked By	23/10/2024
Approved By	23/10/2024
DATE	23/10/2024



BPC House, Unit 12,
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www.bpc-ups.com





BATTERIES
40 X PSLW1500
L = 230mm X W = 138mm X H = 212mm
WEIGHT PER BLOCK = 16.5Kg
TOTAL BATTERY WEIGHT = 660Kg

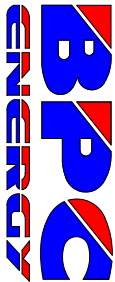
DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : Ck-PPBCA1010-2
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
1	76c	CONVE-20 Solid Connector	
10	350mm	35mm ² Cable with M6/M8 Terminals	
4	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1200mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
5	Meters	Termi Cable Lead Cable	
15	Meters	Copex 32mm	
1		PowerSitor Temp Logger	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
40		Large RED Battery Terminal Strouds	
40		Large BLACK Battery Terminal Strouds	

DRAWING REVISION CHANGE			
REVISION	DESCRIPTION	DRAWN BY	APPROVED BY DATE

BPC Drawing Title			
PPBCA1010 Battery Layout - 40 (x 20) X PSLW1500-2			
BPC Document No		Rev	Page No
DN2194		01	06
Drawn By		Date	
YOUSUF ZAHWAH		24/10/2024	
Approved By		Date	
MATT HENLEY		24/10/2024	



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BATTERIES
44 X PSLW1500
L = 230mm X W = 138mm X H = 212mm
WEIGHT PER BLOCK = 16.5kg
TOTAL BATTERY WEIGHT = 728kg

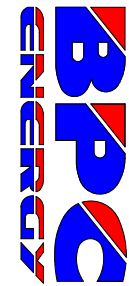
DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : Ck-PPBCA10100-2
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

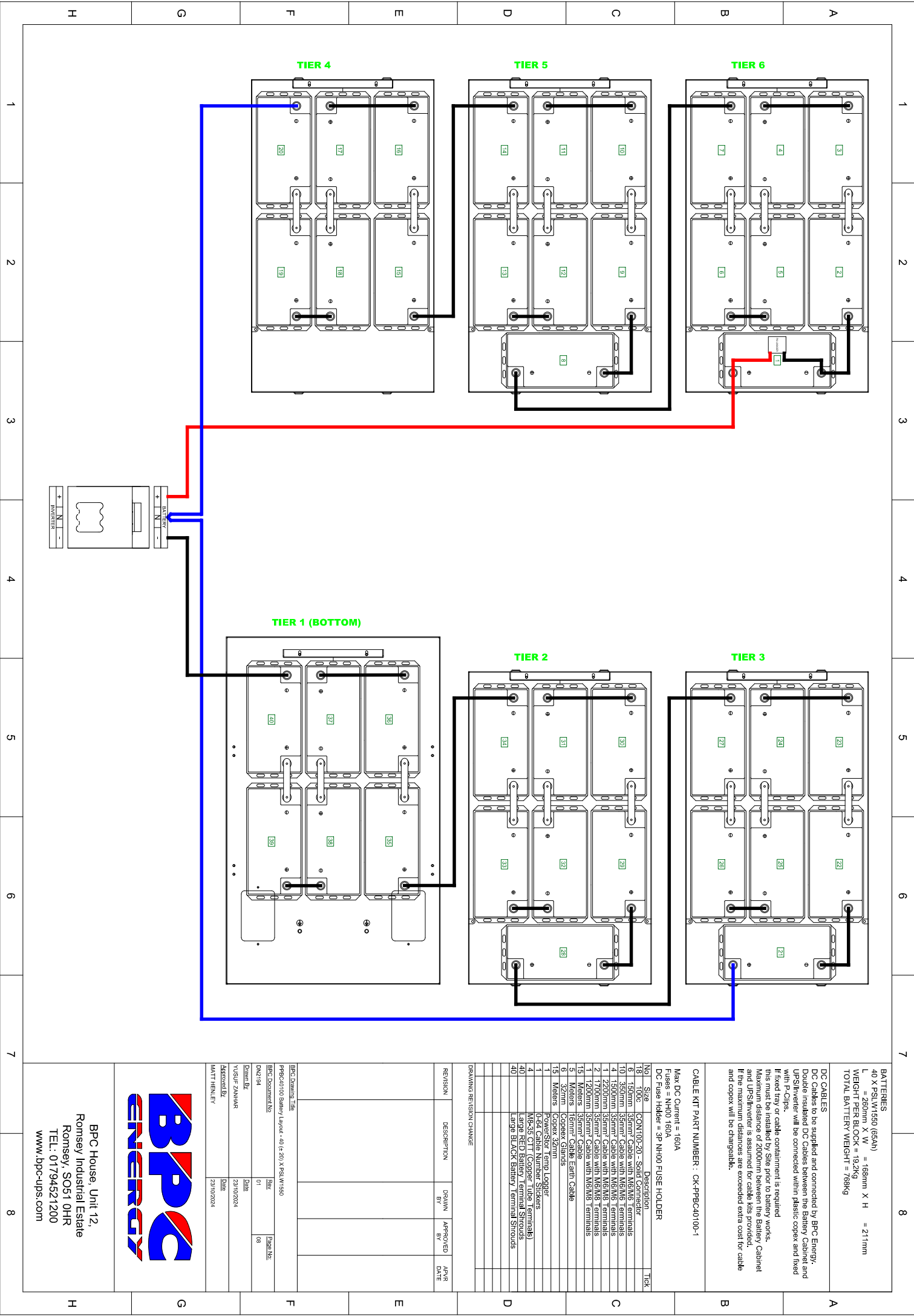
No	Size	Description	Tick
20	76c	CONVE-20 Solid Connector	
16	350mm	35mm ² Cable with M6/M8 Terminals	
12	350mm	35mm ² Cable with M6/M8 Terminals	
4	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1200mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
5	Meters	Terminal Cable	
15	Meters	Copex 32mm	
1		PowerSlot Temp Logger	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
44		Large RED Battery Terminal Strouds	
44		Large BLACK Battery Terminal Strouds	

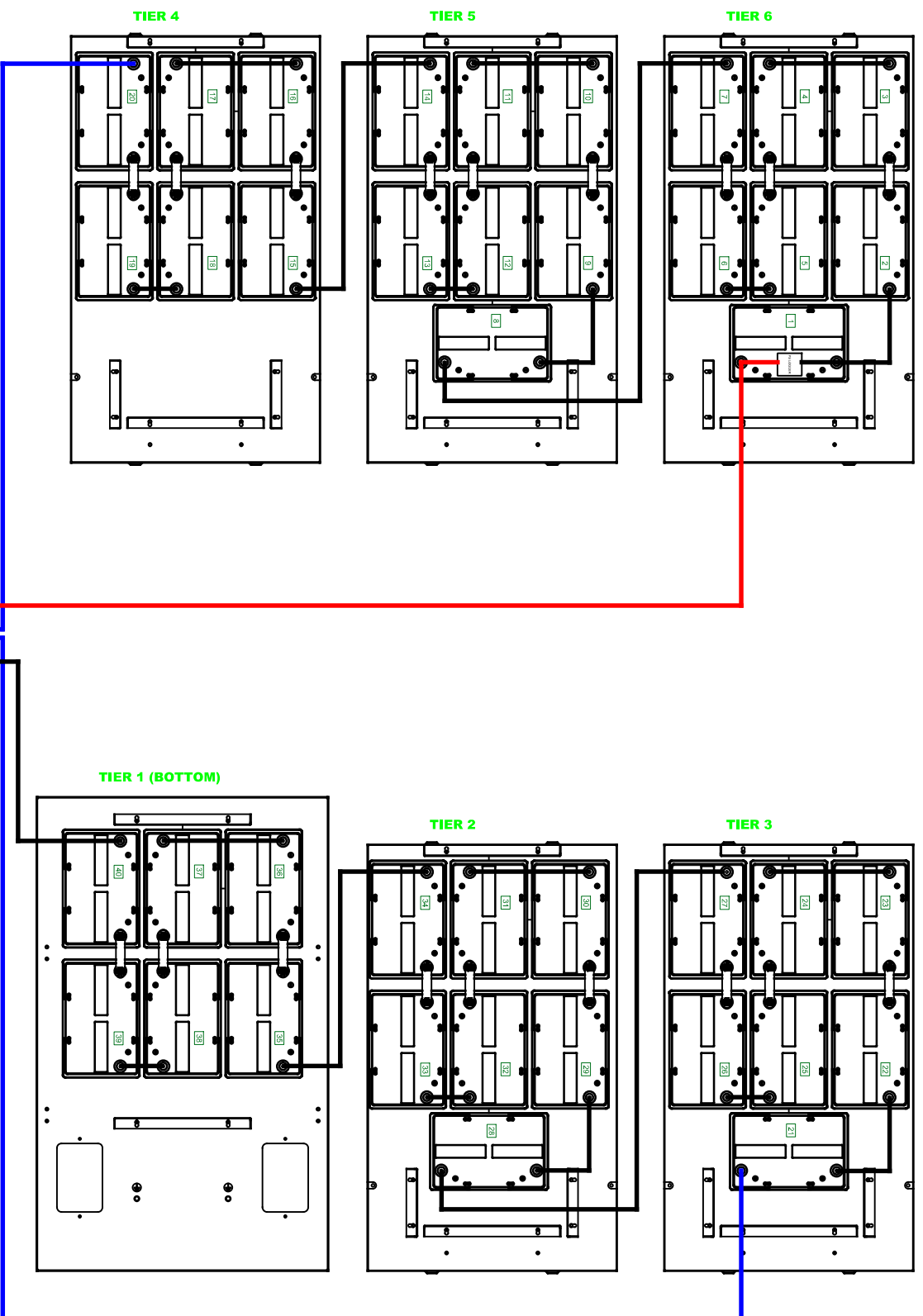
REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE

BPC Drawing Title	PPBCA10100 Battery Layout - 44 (x 22) X PSLW1500-2
BPC Document No	DN194
Drawn By	YOUSUF ZAHWAH
Approved By	MATT HENLEY
Date	24/10/2024



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BATTERIES
40 x PSL W/1900 (65Ah)
L = 256mm X W = 165mm X H = 214mm
WEIGHT PER BLOCK = 48kg
TOTAL BATTERY WEIGHT = 1040kg

DC CABLES
DC Cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS-Inverter will be connected within Plastic coxex and fixed with P-Clips.

If fixed type or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS-Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and coxex will be chargeable.

CABLE KIT PART NUMBER : CK-PPBC40100-2

Max DC Current = 160A

Fuses = NH00 160A

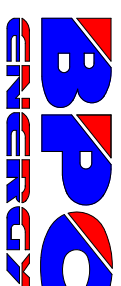
DC Fuse Holder = 3P NH00 FUSE HOLDER

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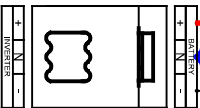
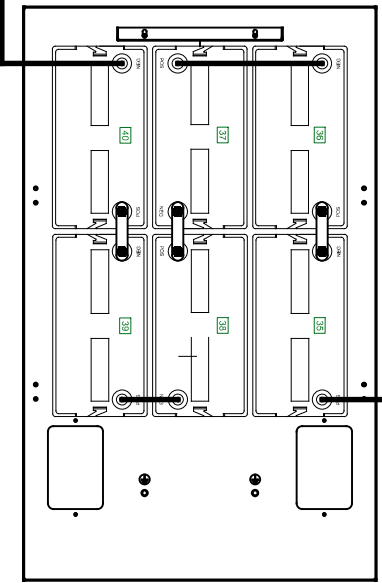
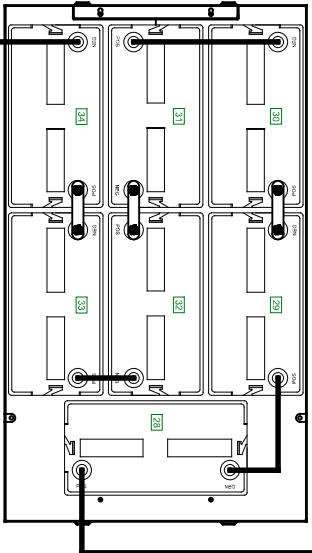
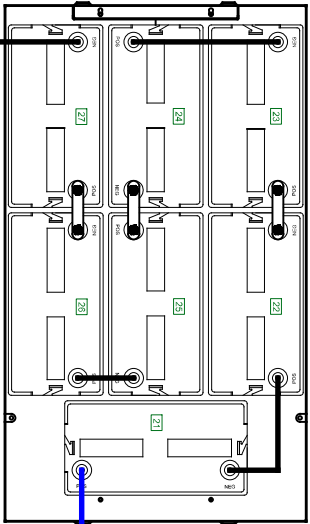
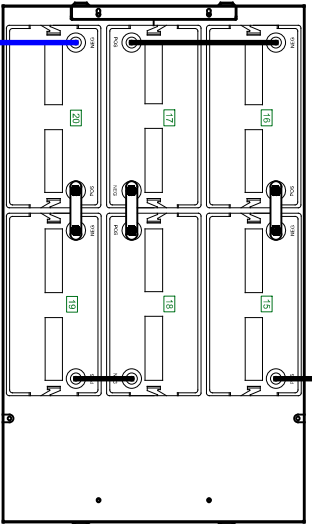
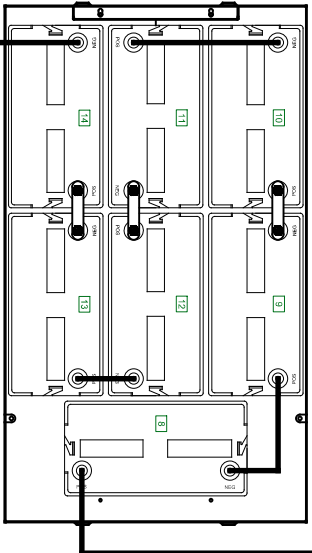
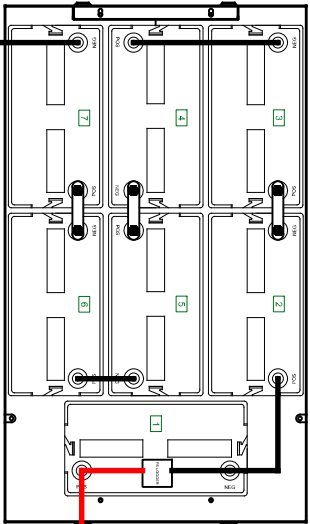
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	APPROVAL DATE
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BPC Drawing Title		PBECD100 Railway Layout - 40 (x 20) x PSLM1900-12	
BPC Document No	Rev	Page No	
DN2194	01	09	
Drawn By	Date		
VUSUF ZAHAR	23/10/2024		
Approved By	Date		
MATT HENLEY	23/10/2024		



**BPC House, Unit 12,
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www.bpc-ups.com**



BATTERIES
40 X PSLW2400 (100Ah)
L = 330mm X W = 171mm X H = 219mm
WEIGHT PER BLOCK = 28kg
TOTAL BATTERY WEIGHT = 1120kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FBPC40100-2

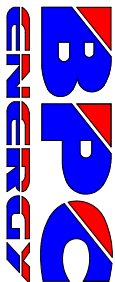
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
8	76c	CONVE-20 Solid Connector	
9	1500mm	35mm ² Cable with M6/M8 Terminals	
10	3500mm	35mm ² Cable with M6/M8 Terminals	
4	15000mm	35mm ² Cable with M6/M8 Terminals	
1	22000mm	35mm ² Cable with M6/M8 Terminals	
2	17000mm	35mm ² Cable with M6/M8 Terminals	
1	12000mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
5	Meters	Termi Cable Lead Cable	
15	Meters	Copex 32mm	
1		PowerStar Temp Logger	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
4		Large RED Battery Terminal Strouds	
40		Large BLACK Battery Terminal Strouds	

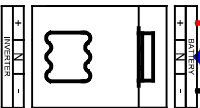
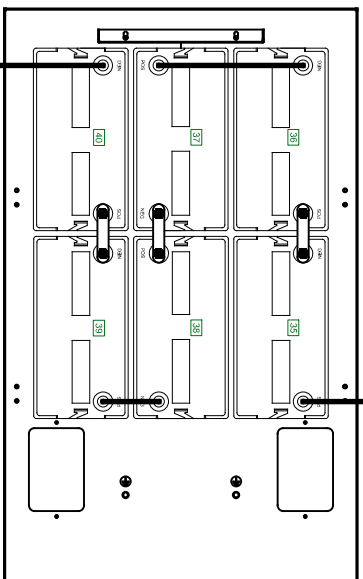
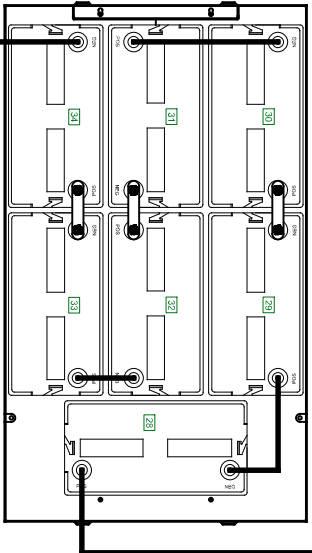
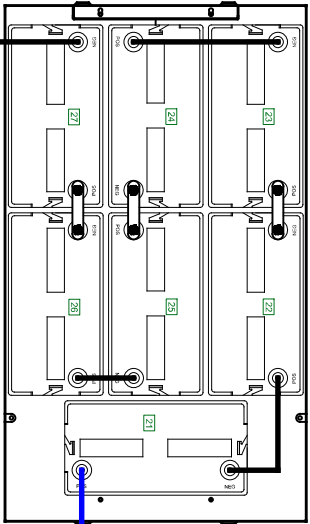
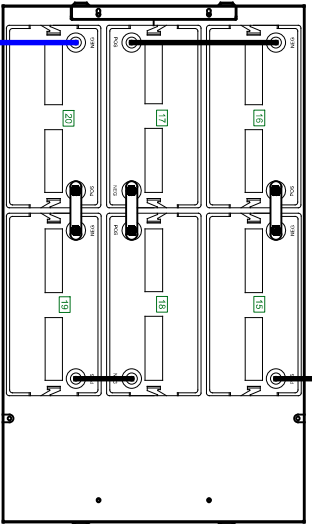
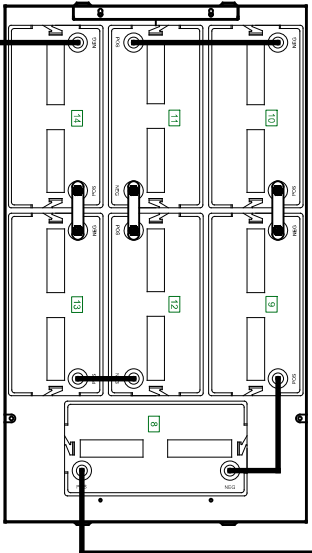
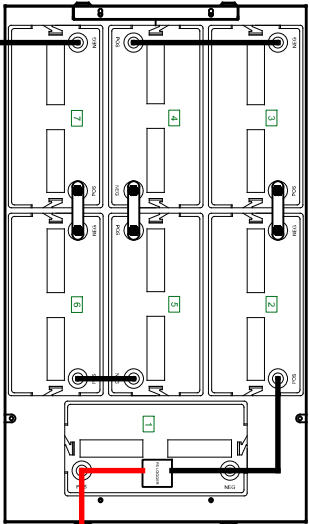
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1				

BPC Drawing Title	FBPC40100 Battery Layout - 40 (x 20) X PSLW2400-2			
BPC Document No	01	Page No	10	
Drawn By	23/10/2024	Date		
YOUSUF ZAHWAK	23/10/2024	Date		
Approved By	23/10/2024	Date		
MATT HENLEY	23/10/2024	Date		



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Romsey, SO51 0HR
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BATTERIES
40 X PSLW2650 (110Ah)
L = 330mm X W = 171mm X H = 219mm
WEIGHT PER BLOCK = 28kg
TOTAL BATTERY WEIGHT = 1120kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-2

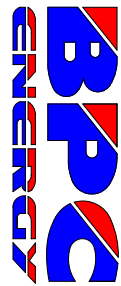
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
8	76c	CONVE-20 Solid Connector	
9	16mm	35mm² Cable with M6/M8 Terminals	
10	350mm	35mm² Cable with M6/M8 Terminals	
4	1500mm	35mm² Cable with M6/M8 Terminals	
1	2200mm	35mm² Cable with M6/M8 Terminals	
2	1700mm	35mm² Cable with M6/M8 Terminals	
1	1200mm	35mm² Cable with M6/M8 Terminals	
15	Meters	35mm² Cable	
3	Meters	Term Cable Earth Cable	
15	Meters	Copex 32mm	
1		PowerStar Temp Logger	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
4		Large RED Battery Terminal Strouids	
40		Large BLACK Battery Terminal Strouids	

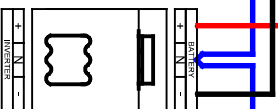
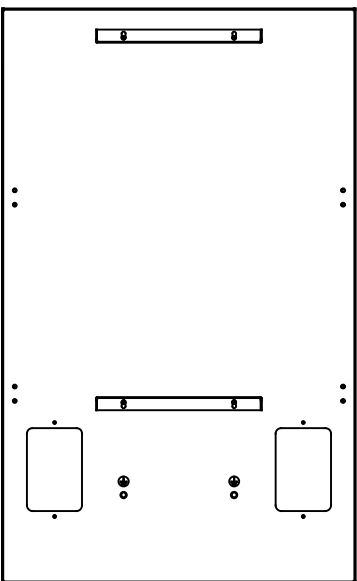
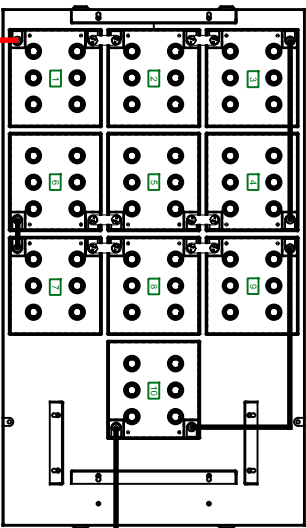
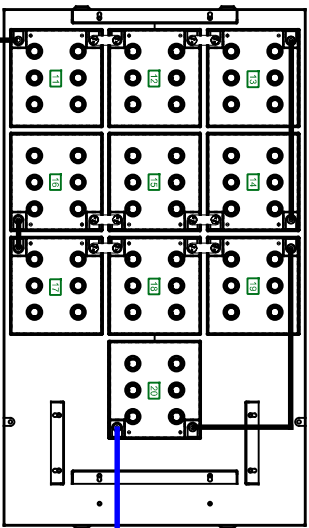
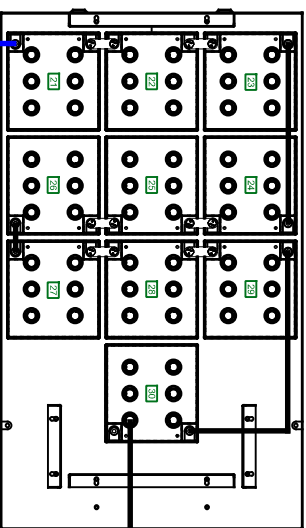
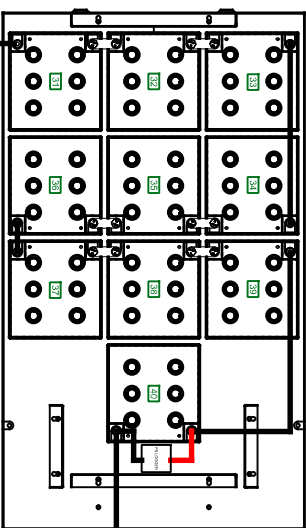
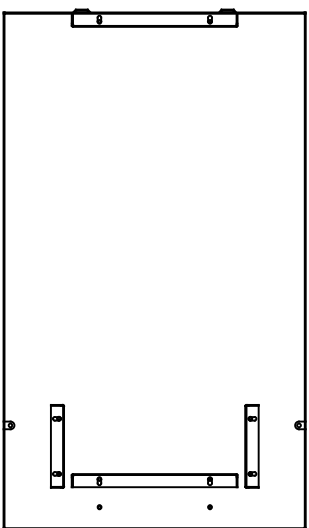
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title		FPBC40100 Battery Layout - 40 (x 20) X PSLW2650-2	
BPC Document No	Doc 104	Size	Page No.
		A1	11
Drawn By	YOUSUF ZAHWAIR	Date	23/10/2024
Approved By	MATT HENLEY	Date	23/10/2024



BPC House, Unit 12,
Romsey Industrial Estate
Romsey, SO51 0HR
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BATTERIES
40 X PSL26-12
L = 260mm X W = 168mm X H = 211mm
WEIGHT PER BLOCK = 28kg
TOTAL BATTERY WEIGHT = 1040kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CCK-PBPCA10100-3

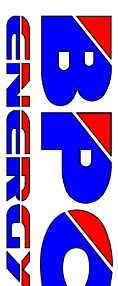
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
21	36C	CON38-15 - Solid Connector	
22	1500mm	35mm ² Cable with M6/M8 Terminals	
8	350mm	35mm ² Cable with M6/M8 Terminals	
2	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1500mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
3	Meters	Terminal Cable Lead Cable	
15	Meters	Copex 32mm	
1	Meters	PowerSlot Temp Logger	
1	0-64	Cable Number Stickers	
4	M6-36 CTT	Copper Tube Terminals	
40	Large RED Battery Terminal Strouds		
40	Large BLACK Battery Terminal Strouds		

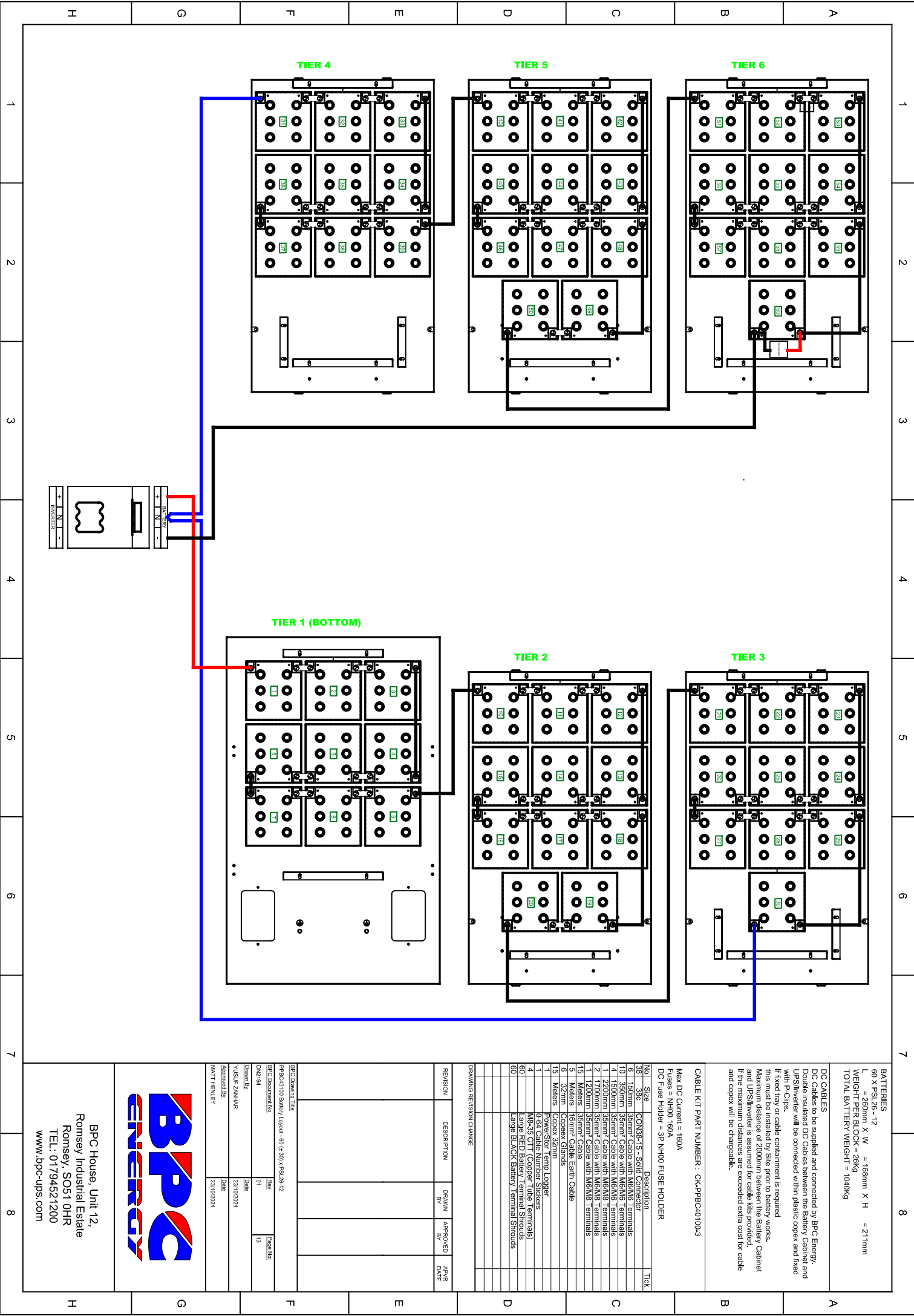
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title		PPBPCA10100 Battery Layout - 40 (x 20) x PSL26-12	
BPC Document No	DN2194	Rev	01
Drawn By		Page No	12
Drawn By	YUSUF ZAHAR	Date	23/10/2024
Approved By		Date	
Approved By	MATT HENLEY	Date	23/10/2024



BPC House, Unit 12,
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www.bpc-ups.com



BATTERIES
60 X PSL26 - 12
L = 260mm X W = 168mm X H = 211mm
WEIGHT PER BLOCK = 28kg
TOTAL BATTERY WEIGHT = 1040kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

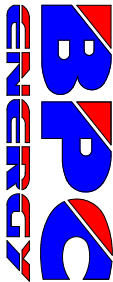
CABLE KIT PART NUMBER: CK-PBPC0100-3
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
30	36C	CON36-15 - Solid Connector	
31	1500mm	35mm ² Cable with M6/M8 Terminals	
10	350mm	35mm ² Cable with M6/M8 Terminals	
4	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1200mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
3	Meters	Termin Cable Lead Cable	
15	Meters	Copex 32mm	
1		PowerStar Temp Logger	
1	0-64	Cable Number Strikers	
4	M6-36 CTT	Copper Tube (Terminals)	
60		Large RED Battery Terminal Strouds	
60		Large BLACK Battery Terminal Strouds	

DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title				
PBPC0100 Battery Layout - 60 (e 30) X PSL26-12				
BPC Document No		Rev	Page No	
DN2194		01	13	
Drawn By		Date		
YOUSUF ZAHWAH		23/10/2024		
Approved By		Date		
MATT HENLEY		23/10/2024		



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BATTERIES
40 X PSL35 (40Ah)
L = 195mm X W = 130mm X H = 160mm
WEIGHT PER BLOCK = 13.2kg
TOTAL BATTERY WEIGHT = 528kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

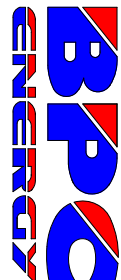
CABLE KIT PART NUMBER : CK-PBPC40100-4
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
8	14G	CON4-20 Solid Connector	
9	14G	15m 35mm ² Battery Cable with M6/M8 terminals	
10	350mm	35mm ² Cable with M6/M8 terminals	
4	1500mm	35mm ² Cable with M6/M8 terminals	
1	2200mm	35mm ² Cable with M6/M8 terminals	
2	1700mm	35mm ² Cable with M6/M8 terminals	
1	1200mm	35mm ² Cable with M6/M8 terminals	
15	Meters	35mm ² Cable	
3	Meters	Terminal Cable Earth Cable	
5	Meters	35mm ² Battery Cable	
15	Meters	Copex 32mm	
1		PowerStar Temp Stickers	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
40		Large RED Battery Terminal Strouds	
40		Large BLACK Battery Terminal Strouds	

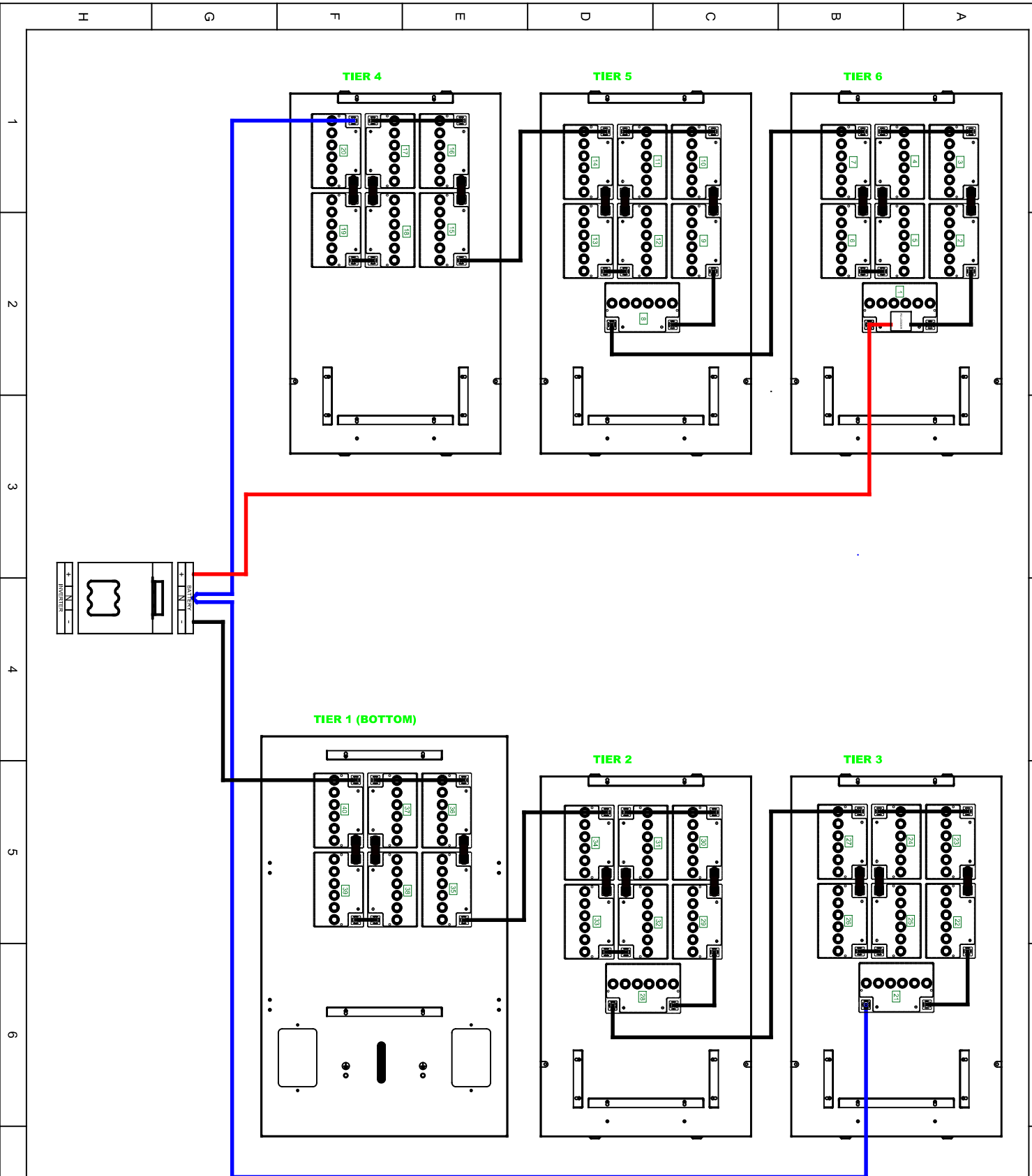
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title				
PBPC40100 Battery Layout - 40 (x 20) X PSL35-12				
BPC Document No	Rev	Drawn By	Drawn Date	Page No
DN2194	01		01/11/2024	14
Drawn By	Date	Drawn Date	Drawn Date	
YUSUF ZAHAR	01/11/2024			
Approved By	Date	Drawn Date	Drawn Date	
MATT HENLEY	01/11/2024			



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BATTERIES
60 X PSL35 (40Ah)
L = 195mm X W = 130mm X H = 160mm
WEIGHT PER BLOCK = 13.2kg
TOTAL BATTERY WEIGHT = 528kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

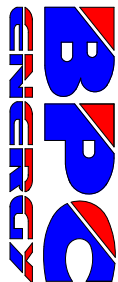
CABLE KIT PART NUMBER: CK-PBPCA1010-4
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
30	16mm	CON4-20 Solid Connector	
31	16mm	15m 16mm 35mmr Cable with M6/M8 Terminals	
11	350mm	35mmr Cable with M6/M8 Terminals	
4	1500mm	35mmr Cable with M6/M8 Terminals	
1	2200mm	35mmr Cable with M6/M8 Terminals	
2	1700mm	35mmr Cable with M6/M8 Terminals	
1	1200mm	35mmr Cable with M6/M8 Terminals	
15	Meters	35mmr Cable	
3	Meters	Term Cable Earth Cable	
15	Meters	Copex 32mm	
1	0-64	PowerSlot Temp Loggers	
1	0-64	Cable Number Stickers	
4	M6-36 CTT	Copper Tube Terminals	
60	Large RED Battery Terminal Strouds		
60	Large BLACK Battery Terminal Strouds		

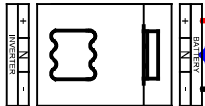
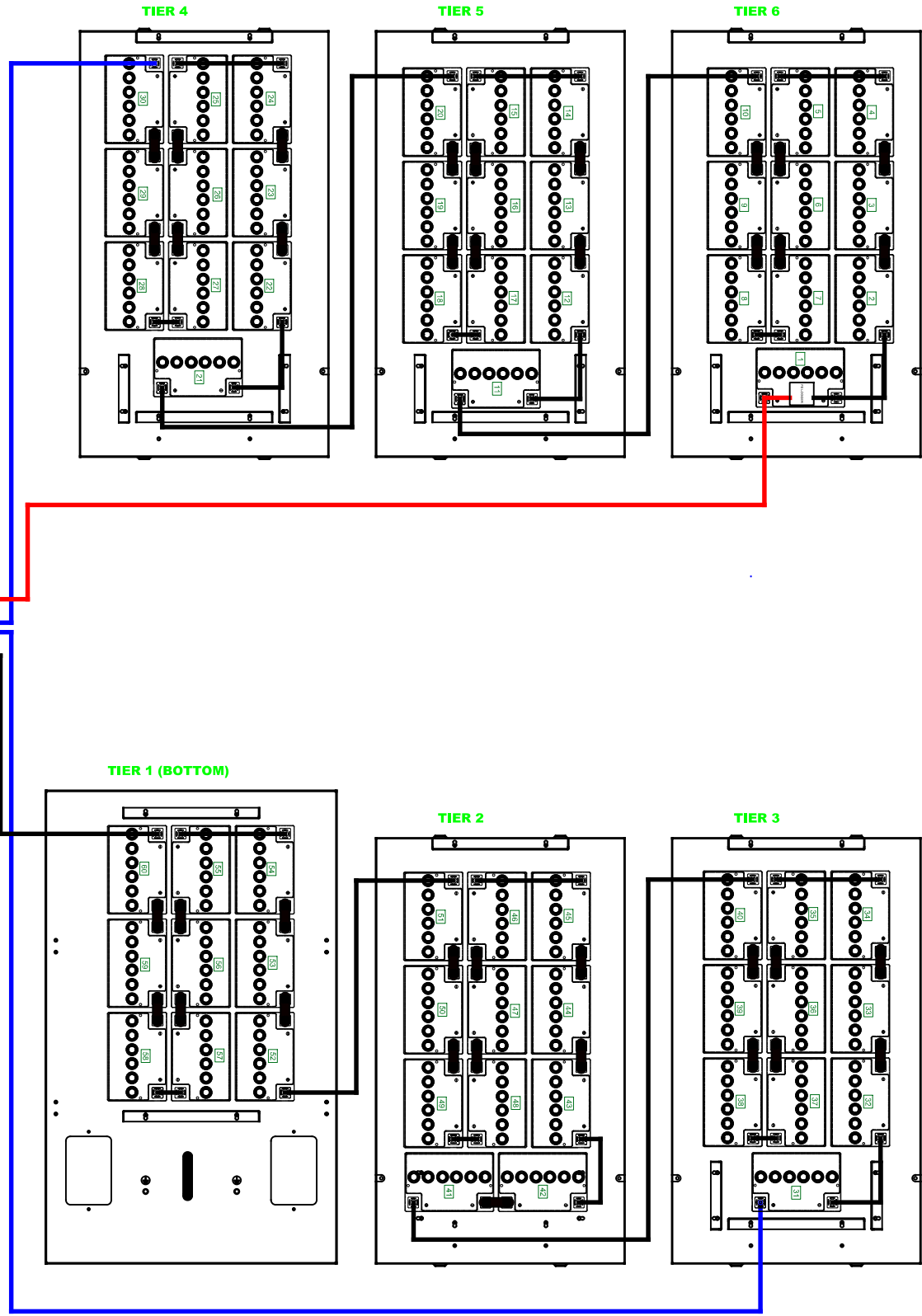
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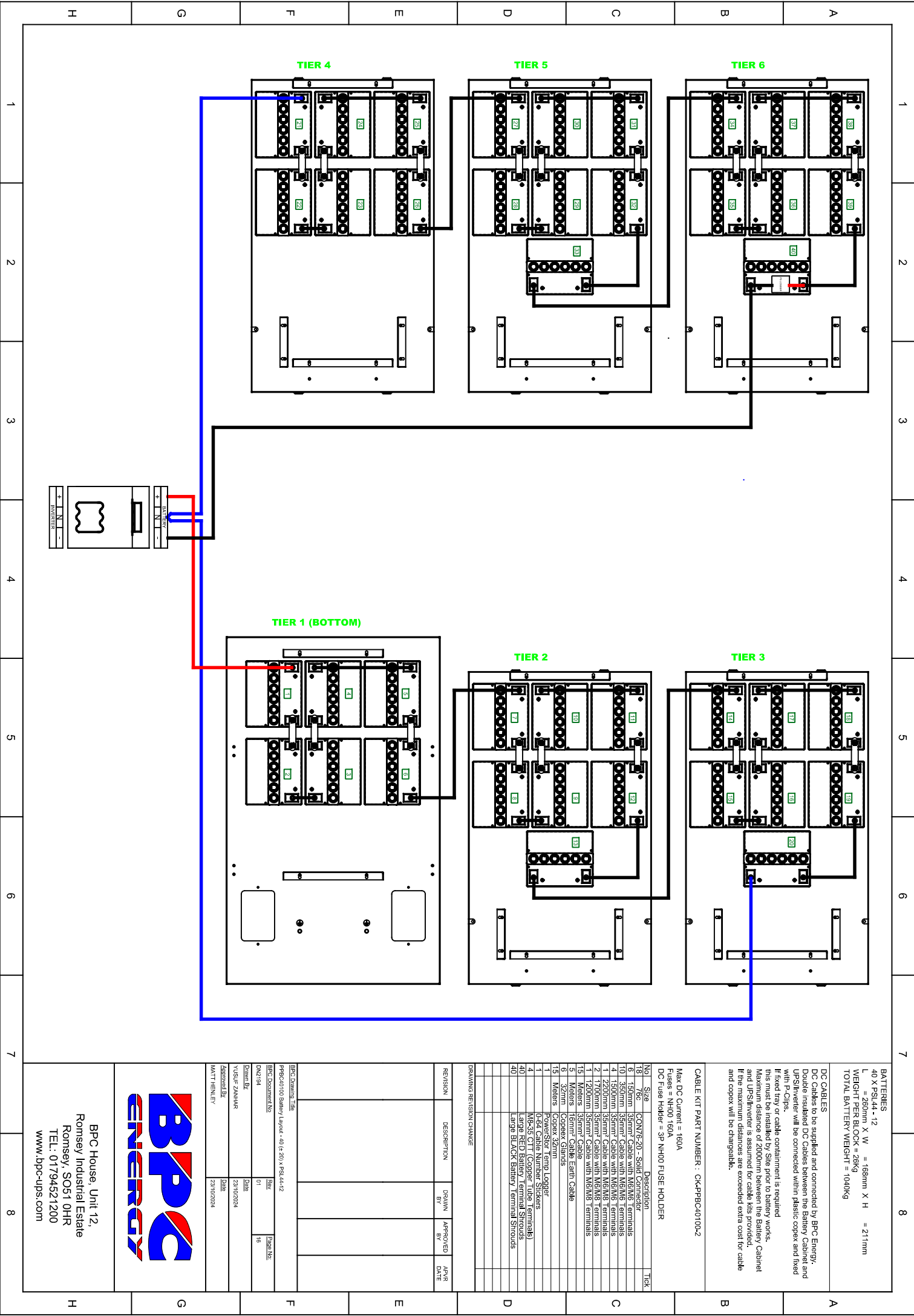
REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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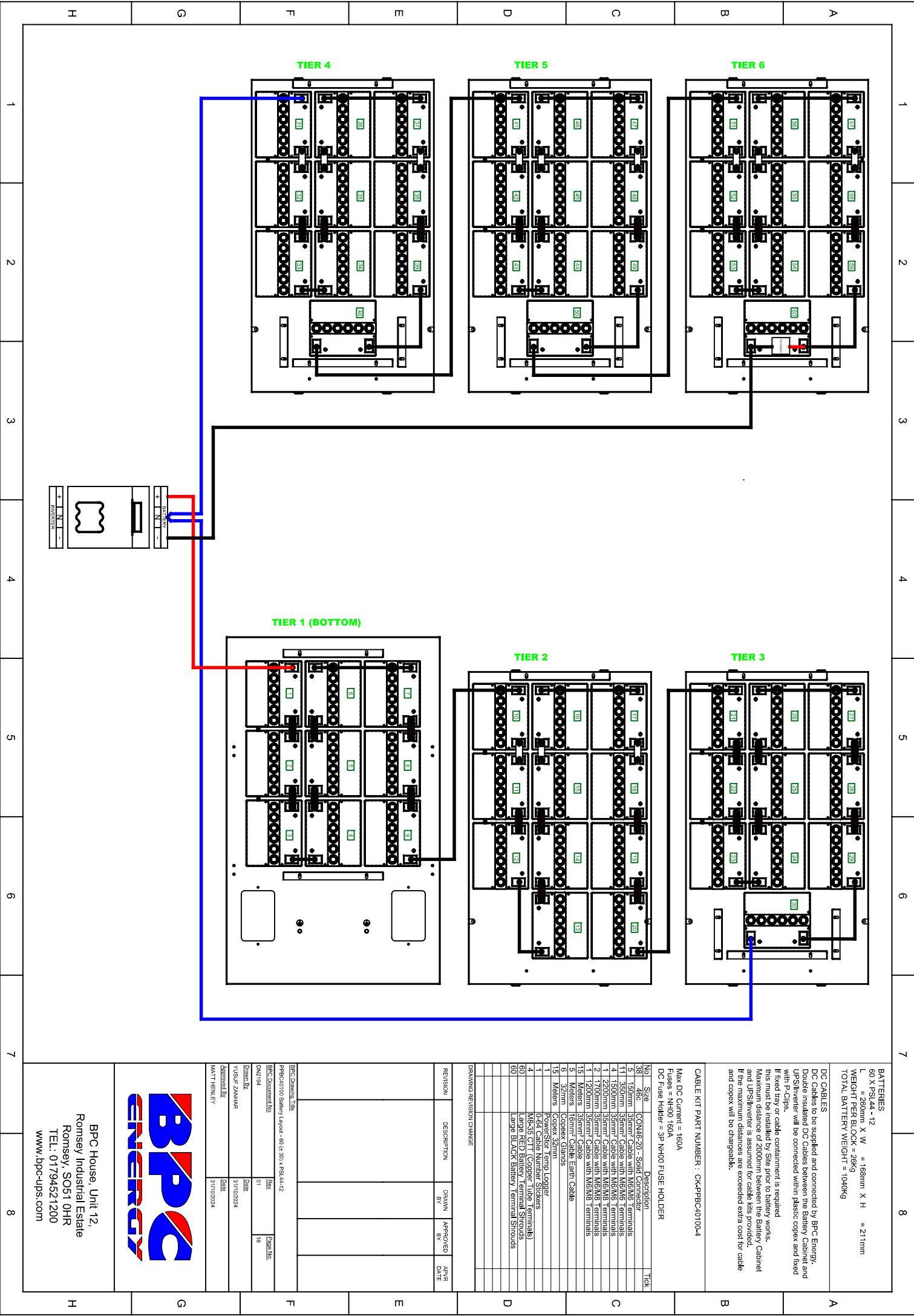
BPC Drawing Title				
PBPCA1010 Battery Layout - 60 (x 30) x PSL35-12				
BPC Document No	Rev	Drawn By	Drawn Date	Page No.
DN2194	01	YOSUP ZAMMAR	01/11/2024	15
Approved By		Date		
MATT HENLEY		01/11/2024		



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BATTERIES
60 X PS14-12
L = 260mm X W = 168mm X H = 211mm
WEIGHT PER BLOCK = 26Kg
TOTAL BATTERY WEIGHT = 1040Kg

DC CABLES
DC cables to be supplied and connected by BPC Energy. Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided. If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

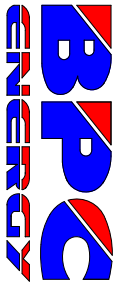
CABLE KIT PART NUMBER : CK-PPBCA100-4
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
30	46C	CON46-20 Solid Connector	
1	160mm	35mm ² Cable with M6/M8 Terminals	
11	350mm	35mm ² Cable with M6/M8 Terminals	
4	1500mm	35mm ² Cable with M6/M8 Terminals	
1	2200mm	35mm ² Cable with M6/M8 Terminals	
2	1700mm	35mm ² Cable with M6/M8 Terminals	
1	1200mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
3	Meters	Term Cable Earth Cable	
15	Meters	Copex 32mm	
1	0-64	PowerSist Temp Logger	
1	0-64	Cable Number Stickers	
4	M6-36 CTT	Copper Tube Terminals	
60	Large RED	Battery Terminal Shrouds	
60	Large BLACK	Battery Terminal Shrouds	

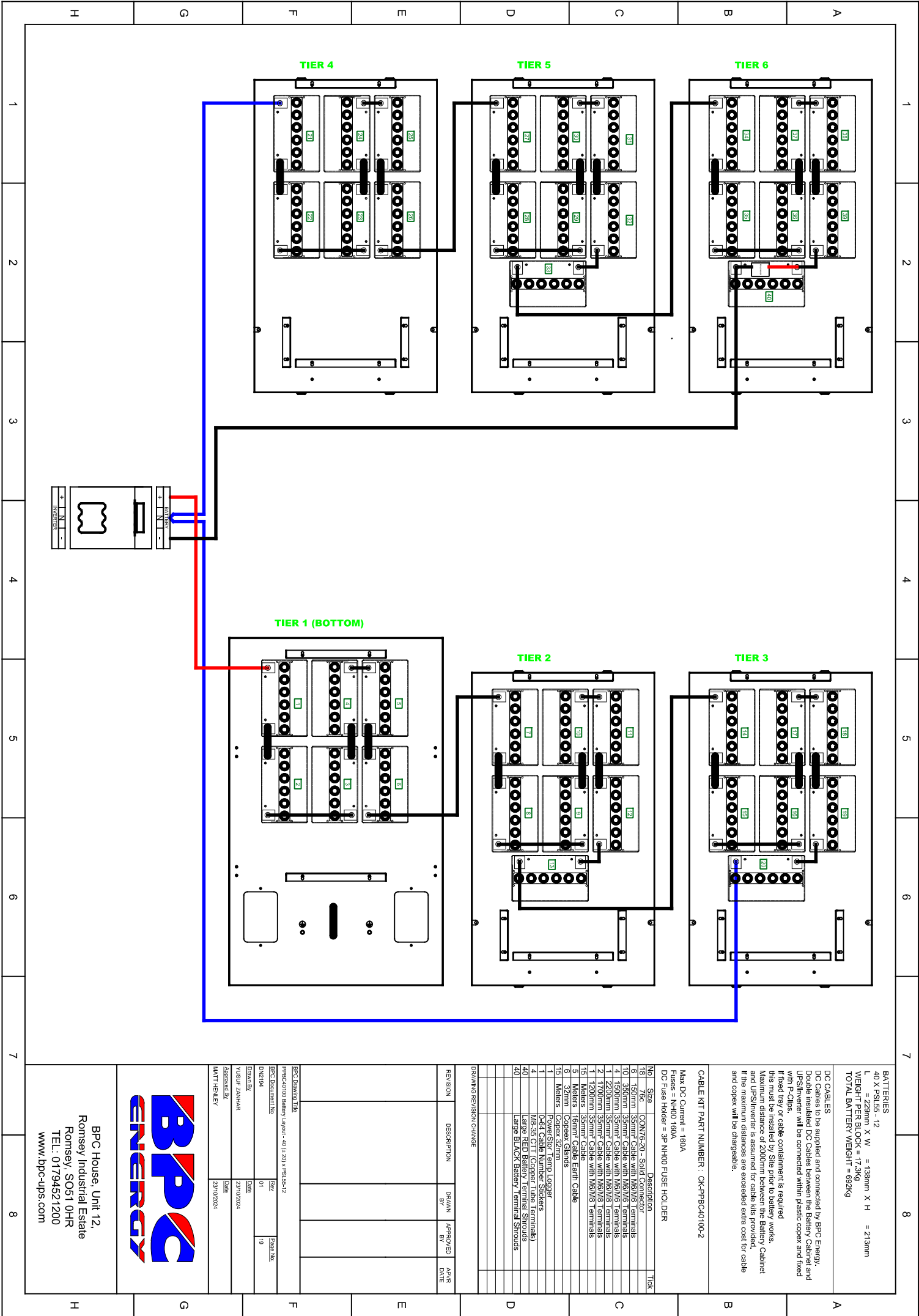
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title				
PPBCA100 Battery Layout - 60 (x 30) x PS14-12				
BPC Document No		Rev	Page No	
DN194		01	18	
Drawn By		Date		
TUSUP-24MMAR		31/10/2024		
Approved By		Date		
MATT HENLEY		31/10/2024		



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BATTERIES
40 X PSL55 - 12
L = 229mm X W = 138mm X H = 213mm
WEIGHT PER BLOCK = 17.3kg
TOTAL BATTERY WEIGHT = 692kg

DC CABLES

DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.

If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-PBPC40100-2

Max DC Current = 160A

Fuses = NH00 160A

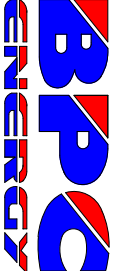
DC Fuse Holder = 3P NH00 FUSE HOLDER

Nº	Size	Description	Tick
18	76c	CON76-50 - Solid Connector	
6	150mm	35mm² Cable with M6/M6 Terminals	
10	1500mm	35mm² Cable with M6/M6 Terminals	
4	1500mm	35mm² Cable with M6/M6 Terminals	
1	2200mm	35mm² Cable with M6/M6 Terminals	
2	1200mm	35mm² Cable with M6/M6 Terminals	
15	1200mm	35mm² Cable with M6/M6 Terminals	
15	1200mm	35mm² Cable with M6/M6 Terminals	
5	16mm	16mm² Cable Earth Cable	
6	32mm	Copex Glands	
15	32mm	Copex 32mm	
1		PowerSiv Temp Logger	
1		4-4 Cable Lumber Straps	
4		Large RED Battery Terminal Shrouds	
40		Large BLACK Battery Terminal Shrouds	

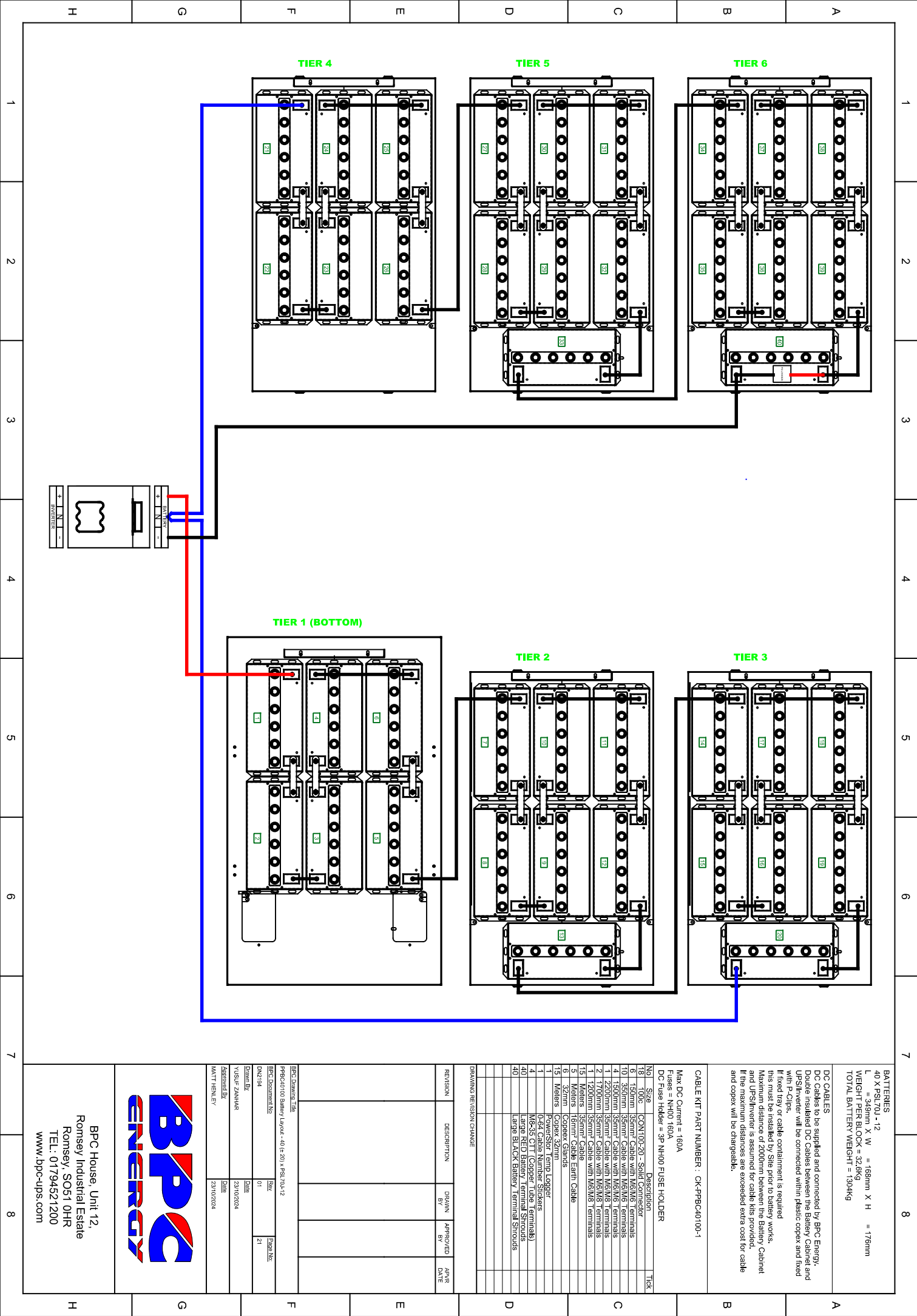
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE

BPC Drawing Title	PBPC40100 Battery Layout - 40 (4 20) x PSL55-12		
BPC Document No	Rev	01	Page 1/1
DWG194			
Drawn By	Date	23/10/2024	
YUSUF ZAHAR			
Approved By	Date	23/10/2024	
MATT HENLEY			



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BATTERIES
40 X PSL70U-12
L = 349mm X W = 169mm X H = 176mm
WEIGHT PER BLOCK = 32.6kg
TOTAL BATTERY WEIGHT = 1304kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-1

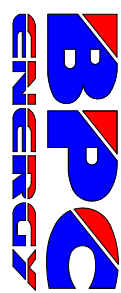
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
8	100c	CON100-20 - Split Connector	
9	1500mm	35mm ² Cable with M6/M8 Terminals	
10	3500mm	35mm ² Cable with M6/M8 Terminals	
4	15000mm	35mm ² Cable with M6/M8 Terminals	
1	22000mm	35mm ² Cable with M6/M8 Terminals	
2	17000mm	35mm ² Cable with M6/M8 Terminals	
1	12000mm	35mm ² Cable with M6/M8 Terminals	
15	Meters	35mm ² Cable	
3	Meters	Term Cable Earth Cable	
15	Meters	Copex 32mm	
1	0-64	PowerSlot Temp Logger	
1	0-64	Cable Number Stickers	
4	M6-36 CTT	Copper Tube (Terminals)	
4	Large RED	Battery Terminal Strouds	
40	Large BLACK	Battery Terminal Strouds	

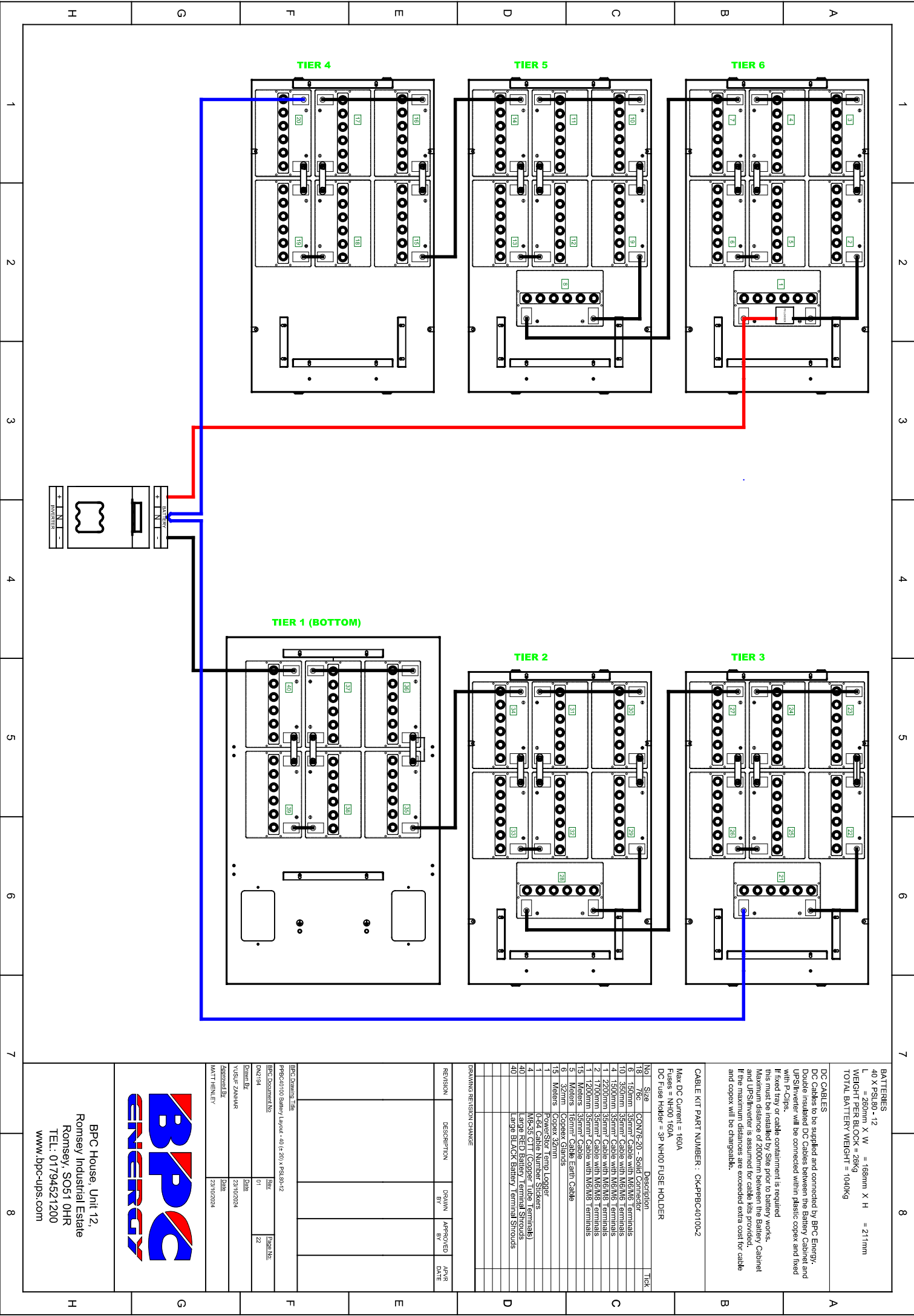
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
01				

BPC Drawing Title	FPBC40100 Battery Layout - 40 (c 20) x PSL70U-12		
BPC Document No	01	Page No	21
Drawn By	23/10/2024	Date	
YOUSUF ZAHWAH	23/10/2024	Date	
Approved By	23/10/2024	Date	
MATT HENLEY	23/10/2024	Date	



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BATTERIES
40 X PSL80 - 12
L = 260mm X W = 168mm X H = 211mm
WEIGHT PER BLOCK = 26kg
TOTAL BATTERY WEIGHT = 1040kg

DC CABLES
DC cables to be supplied and connected by BPC Energy. Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works. Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided. If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

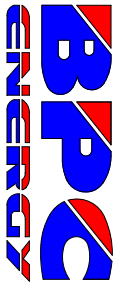
CABLE KIT PART NUMBER : CK-PPBCA10100-2
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
8	16c	CONVE-20 Solid Connector	
9	16c	16mm 35mmr Cable with M6/M8 Terminals	
10	350mm	35mmr Cable with M6/M8 Terminals	
4	1500mm	35mmr Cable with M6/M8 Terminals	
1	2200mm	35mmr Cable with M6/M8 Terminals	
2	1700mm	35mmr Cable with M6/M8 Terminals	
1	1200mm	35mmr Cable with M6/M8 Terminals	
15	Meters	35mmr Cable	
3	Meters	16mmr Cable	
15	Meters	16mmr Cable	
15	Meters	Copex 32mm	
1		PowerStar Temp Logger	
1		0-64 Cable Number Stickers	
4		M6-36 CTT (Copper Tube Terminals)	
40		Large RED Battery Terminal Strouds	
40		Large BLACK Battery Terminal Strouds	

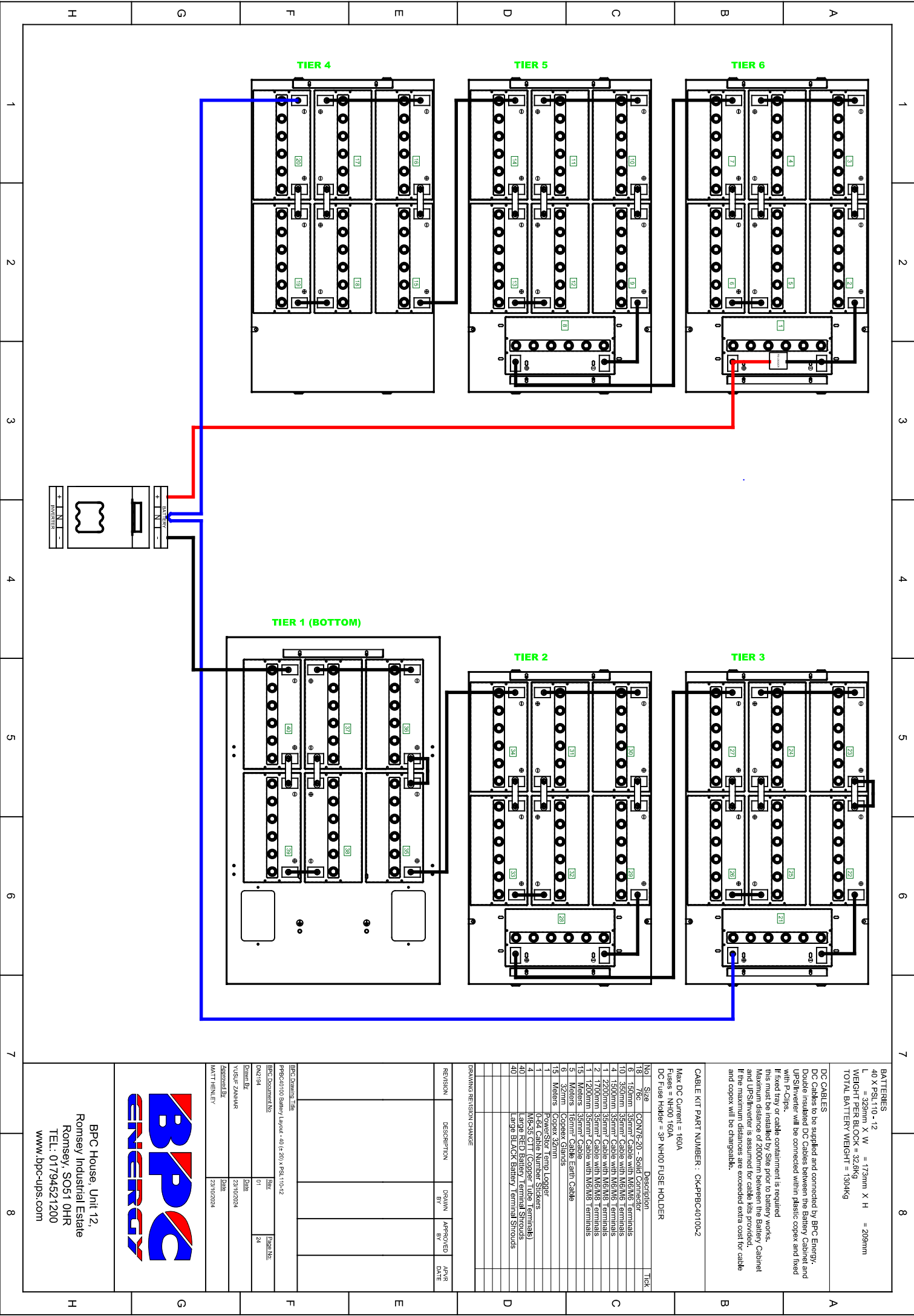
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN BY	APPROVED BY	DATE
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BPC Drawing Title				
PPBCA1010 Battery Layout - 40 (x 20) x PSL80-12				
BPC Document No				
DN1194				
Drawn By				
TUSUP-24/NAHR				
Date				
23/10/2024				
Approved By				
MATT HENLEY				
Date				
23/10/2024				



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BATTERIES
40 X PSL 110 - 12
L = 329mm X W = 172mm X H = 209mm
WEIGHT PER BLOCK = 32.6kg
TOTAL BATTERY WEIGHT = 1304kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and
UPS/Inverter will be connected within plastic copex and fixed
with P-Clips.
If fixed tray or cable containment is required
this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet
and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable
and copex will be chargeable.

CABLE KIT PART NUMBER: CK-PPBCA0100-2

Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
1	16mm	DC Cable	
2	16mm	DC Cable	
3	16mm	DC Cable	
4	16mm	DC Cable	
5	16mm	DC Cable	
6	16mm	DC Cable	
7	16mm	DC Cable	
8	16mm	DC Cable	
9	16mm	DC Cable	
10	16mm	DC Cable	
11	16mm	DC Cable	
12	16mm	DC Cable	
13	16mm	DC Cable	
14	16mm	DC Cable	
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30	16mm	DC Cable	
31	16mm	DC Cable	
32	16mm	DC Cable	
33	16mm	DC Cable	
34	16mm	DC Cable	
35	16mm	DC Cable	
36	16mm	DC Cable	
37	16mm	DC Cable	
38	16mm	DC Cable	
39	16mm	DC Cable	
40	16mm	DC Cable	

DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
1		B1	B1	

BPC Drawing Title	PPBCA0100 Battery Layout - 40 (x 20) x PSL 110-12
BPC Document No	DN1194
Drawn By	23/10/2024
Approved By	23/10/2024
DATE	23/10/2024



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BATTERIES
60 X PSL/FR100 - 12
L = 306mm X W = 173mm X H = 209mm
WEIGHT PER BLOCK = 29.7kg
TOTAL BATTERY WEIGHT = 1188kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

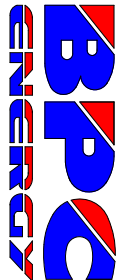
CABLE KIT PART NUMBER : CK-PPBCA0100-5
Max DC Current = 160A
Fuses = NH00 160A
DC Fuse Holder = 3P NH00 FUSE HOLDER

No	Size	Description	Tick
30	400c	CON100-20 - Solid Connector	
10	350mm	350mm Cable with M6/M8 Terminals	
10	300mm	300mm Cable with M6/M8 Terminals	
8	1500mm	350mm Cable with M6/M8 Terminals	
2	4000mm	350mm Cable with M6/M8 Terminals	
1	2200mm	350mm Cable with M6/M8 Terminals	
15	350mm	350mm Cable with M6/M8 Terminals	
3	Meters	350mm Cable	
3	Meters	100mm Cable Earth Cable	
15	Meters	Copex 32mm	
1	PowerStor	Temp Logger	
1	0-4d	Cable Number Stickers	
4	M8-56	CTT (Copper Tube Terminals)	
60	Large RED	Battery Terminal Shrouds	
60	Large BLACK	Battery Terminal Shrouds	

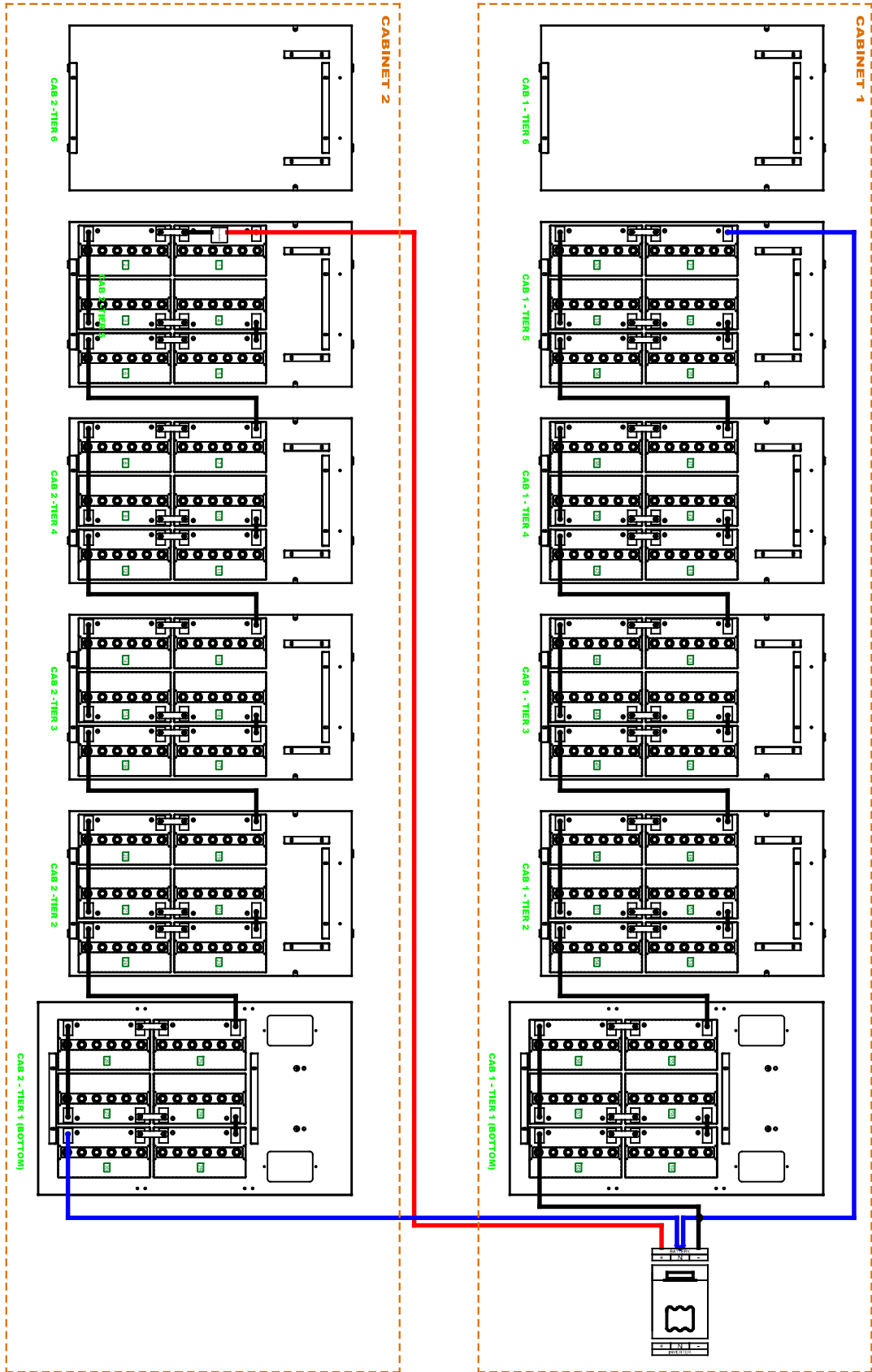
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
01				

BPC Drawing Title			
2 x PPBCA0100 Battery Cabinet - Layout of 60 (+30) X PSL/FR100-12			
BPC Document No		Rev	Drawn By
DNC194		01	28
Drawn By		Date	
YOUSUF ZAHWAH		17/10/2024	
Approved By		Date	
MATT HENLEY		17/10/2024	



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BATTERIES
40 X PSL70U-12
L = 349mm X W = 168mm X H = 176mm
WEIGHT PER BLOCK = 32.6kg
TOTAL BATTERY WEIGHT = 1304kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-7

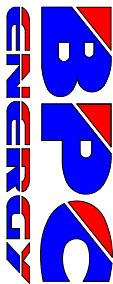
Max DC Current = 100A
Fuses = 22 X 58 100A
DC Fuse Holder = 9 X 1P 22x58 FUSE HOLDER

No	Size	Description	Tick
8	100c	CONT100-20 - Split Connector	
9	350mm	35mm² Cable with M6/M6 Terminals	
10	350mm	35mm² Cable with M6/M6 Terminals	
2	2200mm	35mm² Cable with M6 Ring to Bootlace	
2	2000mm	35mm² Cable with M6 Ring to Bootlace	
4	1700mm	35mm² Cable with M6 Ring to Bootlace	
3	1500mm	35mm² Cable with M6 Ring to Bootlace	
1	1200mm	35mm² Cable with M6 Ring to Bootlace	
15	32mm	Copex Clamps	
6	32mm	Copex Clamps	
15	Meters	PowerSfor Temp Logger	
1	4	35mm Bootlace	
4	40	Large RED Battery Terminal Straps	
40	40	Large BLACK Battery Terminal Straps	

DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1				
B1				

BPC Drawing Title			
FPBC40100 Battery Layout - 40 (x 20) X PSL70U-12 WITH 120V SEPARATION			
BPC Document No		Rev	Page No
DN2194		01	28
Drawn By		Date	
YOUSUF ZAHWAH		23/10/2024	
Approved By		Date	
MATT HENLEY		23/10/2024	



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BATTERIES
40 X PSL80-12
L = 260mm X W = 168mm X H = 211mm
WEIGHT PER BLOCK = 26kg
TOTAL BATTERY WEIGHT = 1040kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-8

Max DC Current = 100A
Fuses = 22 X 38 100A
DC Fuse Holder = 8 X 1P 22x58 FUSE HOLDER

No	Size	Description	Tick
8	16c	CONVE-20 - Solid Connector	
9	16c	16mm 35mm Ring to Boodlace	
10	350mm	35mm Cable with M6/M6 Terminals	
2	2200mm	35mm Cable with M6 Ring to Boodlace	
2	2000mm	35mm Cable with M6 Ring to Boodlace	
4	1700mm	35mm Cable with M6 Ring to Boodlace	
1	1500mm	35mm Cable with M6 Ring to Boodlace	
1	1200mm	35mm Cable with M6 Ring to Boodlace	
15	35mm	35mm Cable	
6	32mm	32mm Copex Clamps	
15	Meters	Copex 32mm	
1		PowerStar Temp Logger	
4		6-64 Cable Number Stickers	
4		35mm Boodlace	
40		Large RED Battery Terminal Strouds	
40		Large BLACK Battery Terminal Strouds	

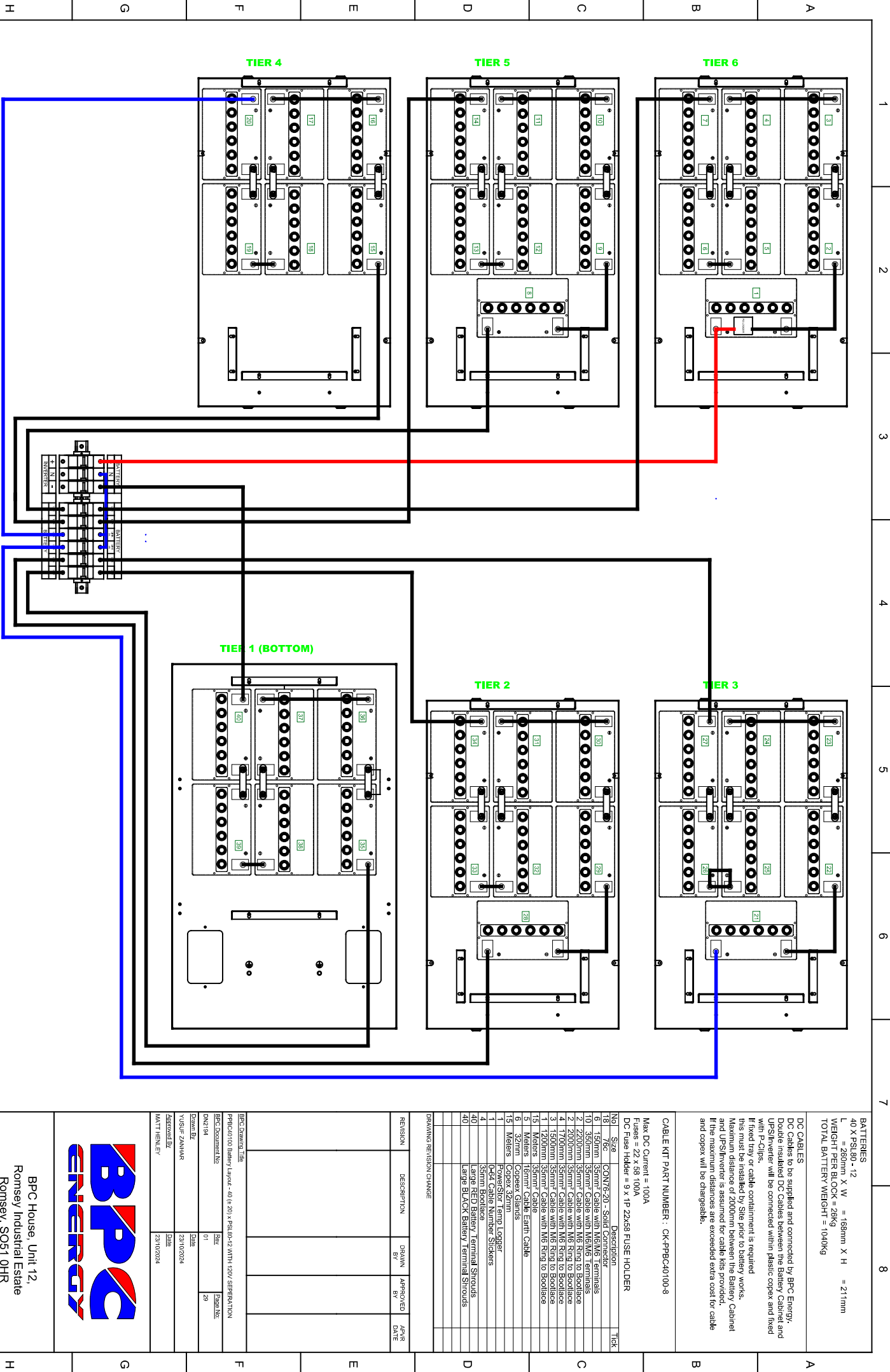
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1		B1		

BPC Drawing Title			
FPBC40100 Battery Layout - 40 (x 20) X PSL80-12 WITH 120V SEPARATION			
BPC Document No	Rev	Page No	
DN194	01	29	
Drawn By	Date		
YUSUF ZAHWAH	23/10/2024		
Approved By	Date		
MATT HENLEY	23/10/2024		



BPC House, Unit 12,
Romsey Industrial Estate
Romsey, SO51 0HR
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www.bpc-ups.com



BATTERIES
40 X PSL(FR)100 - 12
L = 306mm X W = 173mm X H = 209mm
WEIGHT PER BLOCK = 29.7kg
TOTAL BATTERY WEIGHT = 1188kg

DC CABLES

DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and UPS/Inverter will be connected within plastic copex and fixed with P-Clips.
If fixed tray or cable containment is required this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FPBC40100-8

Max DC Current = 100A

Fuses = 22 X 38 100A

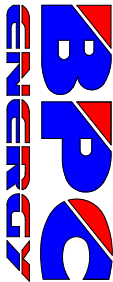
DC Fuse Holder = 9 X 1P 22x58 FUSE HOLDER

No	Size	Description	Tick
8	16c	CONVE-20 Solid Connector	
9	16mm	35mm Ring to M6 Terminals	
10	350mm	35mm Cable with M6 Terminals	
2	2200mm	35mm Cable with M6 Ring to Bootlace	
2	2000mm	35mm Cable with M6 Ring to Bootlace	
4	1700mm	35mm Cable with M6 Ring to Bootlace	
1	1500mm	35mm Cable with M6 Ring to Bootlace	
1	1200mm	35mm Cable with M6 Ring to Bootlace	
15	32mm	35mm Cable	
6	32mm	Copex Clamps	
15	Meters	Copex 32mm	
1		PowerStor Temp Logger	
1		6-64 Cable Number Stickers	
4		35mm Bootlace	
40		Large RED Battery Terminal Straps	
40		Large BLACK Battery Terminal Straps	

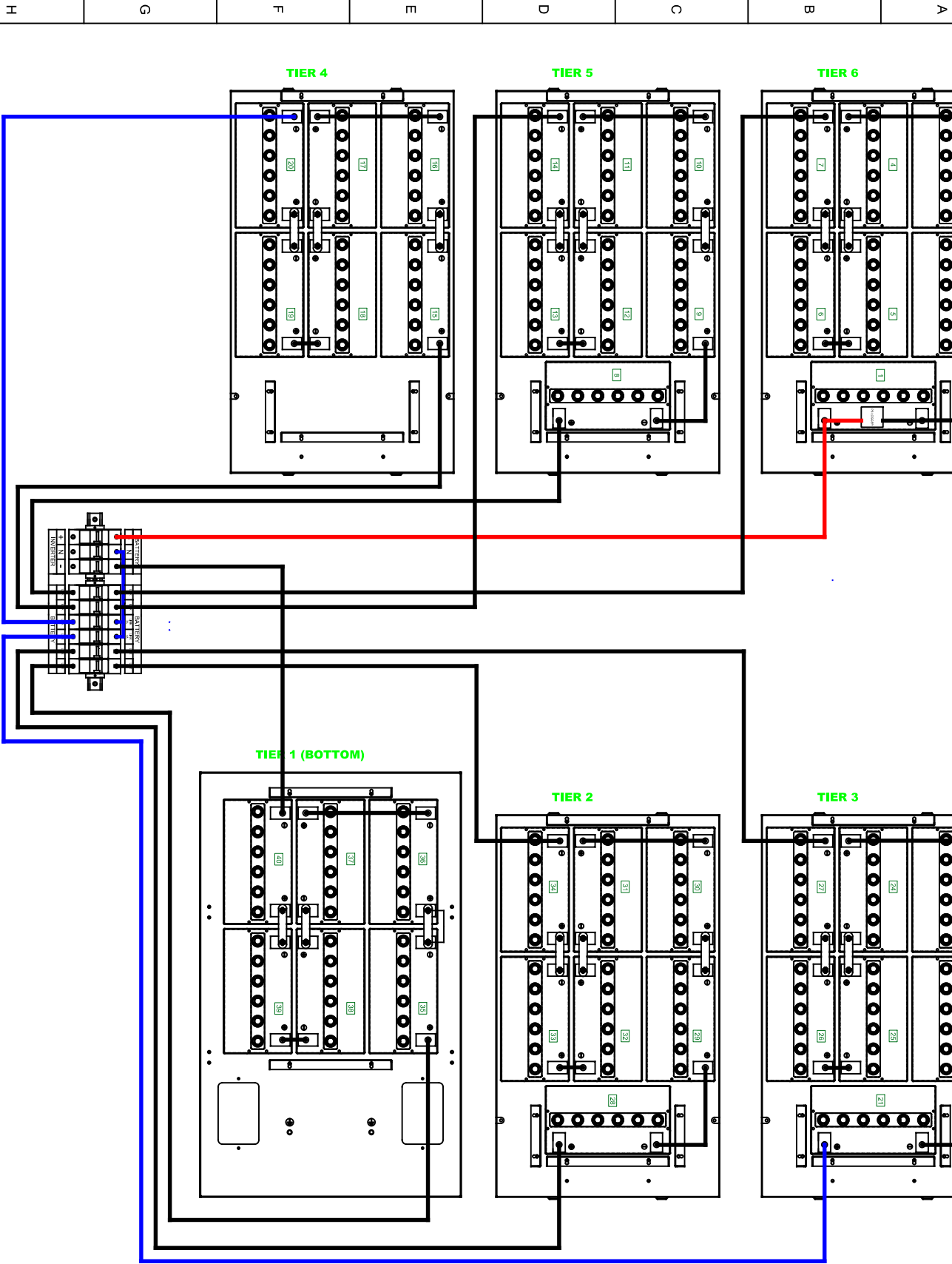
DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1				

BPC Drawing Title	PPBC40100 Battery Layout - 40 (x 20) X PSL(FR)100-12 WITH 120V SEPARATION
BPC Document No	DN194
Drawn By	YUSUF ZAHWAH
Approved By	MATT HENLEY
Date	23/10/2024
Date	23/10/2024



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BATTERIES
40 X PSL 110 - 12
L = 329mm X W = 172mm X H = 209mm
WEIGHT PER BLOCK = 32.6kg
TOTAL BATTERY WEIGHT = 1304kg

DC CABLES
DC cables to be supplied and connected by BPC Energy.
Double insulated DC Cables between the Battery Cabinet and
UPS/Inverter will be connected within plastic copex and fixed
with P-Clips.
If fixed tray or cable containment is required
this must be installed by Site prior to battery works.
Maximum distance of 2000mm between the Battery Cabinet
and UPS/Inverter is assumed for cable kits provided.
If the maximum distances are exceeded extra cost for cable
and copex will be chargeable.

CABLE KIT PART NUMBER : CK-FBPC40100-8

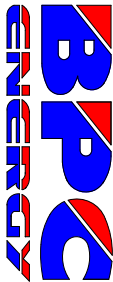
Max DC Current = 100A
Fuses = 22 X 58 100A
DC Fuse Holder = 9 X 1P 22x58 FUSE HOLDER

No	Size	Description	Tick
1	16c	CONV(2-20) - Solid Connector	
2	16c	16mm 35mm Ring to Ring	
10	350mm	35mm Cable with M6 Terminals	
2	2200mm	35mm Cable with M6 Ring to Bootlace	
2	2000mm	35mm Cable with M6 Ring to Bootlace	
4	1700mm	35mm Cable with M6 Ring to Bootlace	
3	1500mm	35mm Cable with M6 Ring to Bootlace	
1	1200mm	35mm Cable with M6 Ring to Bootlace	
15	35mm	35mm Cable	
6	32mm	Copex Clamps	
15	Meters	Copex 32mm	
1		PowerSitor Temp Logger	
1		0-64 Cable Number Stickers	
4		35mm Bootlace	
40		Large RED Battery Terminal Straps	
40		Large BLACK Battery Terminal Straps	

DRAWING REVISION CHANGE

REVISION	DESCRIPTION	DRAWN	APPROVED	DATE
B1		B1		

BPC Drawing Title			
FBPC40100 Battery Layout - 40 (x 20) x PSL 110-12 WITH 120V SEPARATION			
BPC Document No	Rev	Page No	
DN194	01	31	
Drawn By	Date		
YUSUF ZAHAR	23/10/2024		
Approved By	Date		
MATT HENLEY	23/10/2024		



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