

Life Is On

Schneider
Electric



Galaxy 3500

10/15/20/30 kVA

Performance power protection for critical applications

Performance power protection with best-in-class efficiency for technical facilities and industrial applications

The Galaxy™ 3500 further enhances the performance and reliability by introducing UL 924 listed battery systems for every lighting application. All systems were UL witness tested for compliance with UL 924 criteria for a minimum of 90 minutes and CSA 22.2 criteria for a minimum of 120 minutes of battery operation with full load on the UPS. Recharge criteria was met with both normal and reduced input voltage conditions.

schneider-electric.com/us

Galaxy 3500

10 – 30 kVA compact, three-phase power protection with excellent efficiency and optimized footprint, particularly adapted for demanding industrial environments:

- Double conversion online topology
- Compact and robust design
- Best-in-class efficiency (94 percent)
- Parallel capability
- Network manageability
- IP51/NEMA 12 for industrial environments
- UL 924 and CSA 22.2 approved for emergency lighting applications

Four units in parallel



Galaxy 3500

Availability

- Dual mains input
- Automatic internal bypass
- Batteries
- Modular power module
- Generator compatible
- Parallel up to four units for capacity and redundancy

Serviceability

- Manual maintenance bypass
- User-replaceable air filters
- Battery replacement without tools
- Front-access servicing

Economy

- Input power factor correction
- Temperature-compensated battery charging
- Efficiency: up to 94 percent

Simplified installation

- Wiring connections
- Busbar connections
- Wheels

Approvals

- Designed and built according to UL, IP, ANSI, and IEEE®

Manageability

- Built-in Web/SNMP management and environmental monitoring
- LCD display
- Audible alarms

Options

- High-performance battery module — SYBTH4
- Up to four external runtime frames with batteries
- Parallel maintenance bypass panel — floor mount
- Wall mount and floor mount to single-unit maintenance bypass
- Transformer cabinets

Typical applications

- Emergency lighting applications
- Commercial buildings: shop floors, hotels, and convention centers
- Transportation and infrastructures
- Pharmaceutical and chemical plants
- Semiconductor plants
- Food and beverage plants
- Other industrial facilities and process plants

Support and service

- Start-up service included
- Worldwide support and after-sales services

Galaxy 3500

Features that make the difference

Reduced total cost of ownership

- **Up to 94 percent efficiency**
Minimizes energy loss and operating costs over time
- **Optimized footprint**
Allows for a wide range of uses in electrical rooms and up to 60 percent space saving
- **Reduced electrical infrastructure rating**
Reduces cost for wiring, transformers, and generators
- **Input power factor correction**
Reduces installation costs

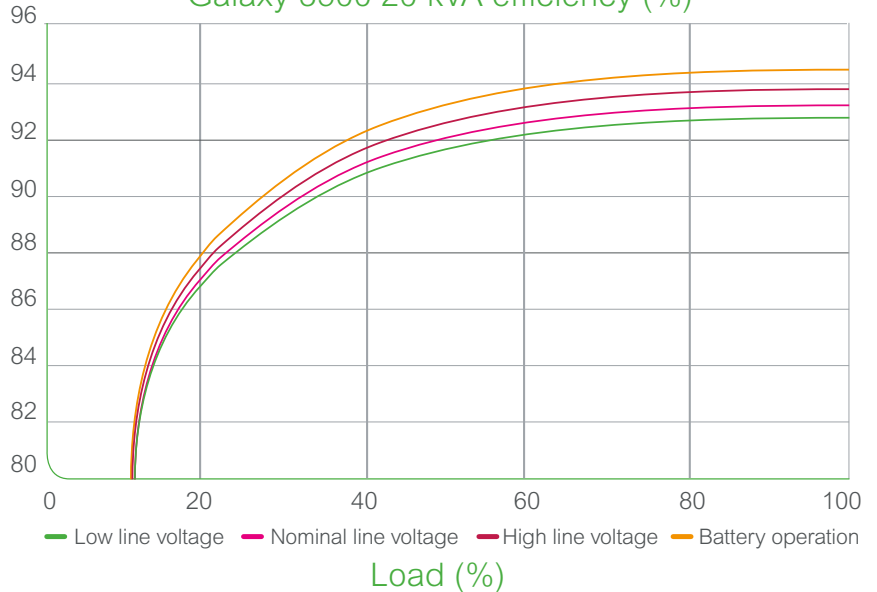
Rugged industrial environments

- **Sturdy enclosure**
2 mm heavy-gate-steel front cover and frame design
- **Easily replaceable air filters**
Prevent dust and debris from affecting UPS performance (arrestance value of 80 percent as per ASHRAE 52.1)
- **IP51**
Ruggedized enclosure with drip shield and dust protection that prevents liquids and dirt particles from entering the UPS
- **Floor anchoring**
Prevents the UPS from tilting
- **Wheels**
Allows the UPS to be easily rolled into place
- **Flame-retardant batteries**
Come standard
- **Fast runtimes**
Meet or exceed 90 minutes to 1.75 VPC per UL 924 requirements

Optional auxiliaries

- **External runtime frame with batteries**
Adds additional runtime configuration with or without breaker
- **Single- or parallel-unit bypass panel, wall mounted and floor mounted**
Provides space savings and turnkey solution for parallel configurations
- **Communication cards**
Network management card supplied with the product; optional cards available for additional features
- **Cabinets**
480 V, 600 V transformer cabinets and bypass cabinets available

Galaxy 3500 20 kVA efficiency (%)



Galaxy 3500

StruxureWare for Data Centers software suite

In the data center environment, our Galaxy 3500 UPS is fully managed through StruxureWare™ for Data Centers software, an integrated suite of data center infrastructure management applications. It enables businesses to prosper by managing their data centers across multiple domains, providing actionable intelligence for an ideal balance of high availability and peak efficiency throughout the entire data center life cycle. StruxureWare software applications and suites are a key element of Schneider Electric EcoStruxure™ integrated hardware and software system architecture — a system designed for intelligent energy management.

A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services provides the expertise, services, and support you need for your building, industry, power, or data center infrastructure. Our world-class life cycle services offer a smart way to install and maintain your critical applications, ensuring your systems are always running at peak performance.

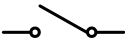



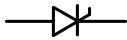
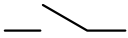

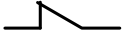


Technical specifications

Rated power (kVA/kW)	10/8	15/12	20/16	30/24
Normal AC supply input				
Input voltage (V)	208 V (three-phase + neutral)			
Frequency (Hz)	40 – 70 Hz			
Input power factor	> 0.98 at load > 50%			
THDI	< 5% at full load			
Input voltage tolerance utility operation	166 V to 240 V (at full load 100 V to 240 V at half load) 208 V			
Dual mains input	Yes			
Input voltage tolerance bypass	+10% standard +4, 6, 8, 10% (programmable)			
Backfeed protection	Built-in backfeed contactor			
Output				
Nominal output voltage (V)	208 V three-phase			
Efficiency at full load (AC-AC)	93.5%	93.0%	94.1%	93.3%
Efficiency at 50% load (AC-AC)	92.5%	93.5%	93.8%	94.3%
DC-AC nominal battery voltage	93.8%	93.8%	93.8%	93.8%
Load power factor	0.5 leading to 0.5 lagging			
Output frequency	Mains synchronized in normal operation 60 Hz + 0.05% free-running			
Overload capacity utility operation	125% for 10 minutes, 150% for 60 seconds			
Overload battery utility operation	150% for 60 seconds			
V THD	< 2% from 0 to 100% linear load, < 5% full nonlinear load			
Output voltage tolerance	+1% static, +5% at 100% load step			
Communication and management				
Communication interface	Network management card with environmental monitor			
Control panel	Power view multi-function LCD, status, and control console			
Dimensions and weights				
Dimensions (H x W x D) narrow tower	58.7 x 14 x 33 in.			
Dimensions (H x W x D) wide tower	58.7 x 20.6 x 33 in.			
UL 924 battery cabinet dimensions (H x W x D)	58.66 x 21.56 x 33.58	58.66 x 45.06 x 33.58	58.66 x 45.06 x 33.58	58.66 x 90.12 x 33.58
Weight (lb.) — narrow tower (with one battery module)	671	873		
Weight (lb.) — wide tower (with two battery modules)	913	913	979	1,181
Weight (lb.)	1801	2450	3090	4900
Control	Metallic Gray (RAL 9023)			
Protection				
Surge	IEC 61000-4-5, EN50091-2 ANSI-IEE C62-41			
Thermal	Yes			
Short circuit	Yes			
Regulatory				
Safety	UL 1778			
EMC/EMI/RFI	EN50091-2 IEC 62040-2 FCC15A			
Approvals	CE UL 924, CSA 22.2			
Environmental				
Operation temperature	32 – 104 °F			
Storage temperature	5 – 113 °F			
Relative humidity	0 to 95% noncondensing			
Operating elevation	0 – 3,333 ft.			
Storage elevation	0 – 50,000 ft.			
Maximum audible noise at 1 m from unit	< 43.3 dBA at < 70% load		< 46.2 dBA at < 70% load	
Protection class	IP51/NEMA 12			

MGE Galaxy 3500 Wide10 to 30 kVA 1 Module with SBP Drawing Guide

Sheet No.	Component /Detail	Description
1	Draw ing Guide	MGE Galaxy 3500 10-30kVA, 1 MOD Wide With SBP Draw ing Guide
2-4	Solution	MGE Galaxy 3500 Wider Tow er 10-30kVA 1 MOD, SBP, 208V.
5-6	UPS	MGE Galaxy 3500 10-30kVA 208V, Wider Tow er
7	SBP	MGE Galaxy 3500 Maintanance Bypass Panel, FloorMount, 208V
8-10	System One Line Diagram	MGE Galaxy 3500 10-30kVA 208V ,1MOD w ith SBP System One Line Diagram
11	System Wiring Diagram	MGE Galaxy 3500 10-30kVA 208V ,1MOD w ith SBP System Control Wiring Diagram

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SWITCH DISCONNECT		INVERTER
	CIRCUIT BREAKER		CONVERTER
	STATIC SWITCH		NORMALLY OPEN CONTACT
	BATTERY MODULE		NORMALLY CLOSED CONTACT

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**Schneider
Electric**

TITLE: MGE GALAXY 3500
Input:208/220V AC 3PH SINGLE/DUAL MAINS
Output:208/220V AC 3PH
10-30kVA WIDER UPS 1 MOD WITH SBP
DRAWING GUIDE

PROJECT: DRAWINGS SHEET 1 OF 11

DWG NO: G35T10K30FWSBP-1MOD REV: 0

DRAWN BY: SHAHID ALI 14-OCT-11

ENGINEER: T.MULLER 25-10-11

APPROVED BY: B.SHERIDAN 25-10-11

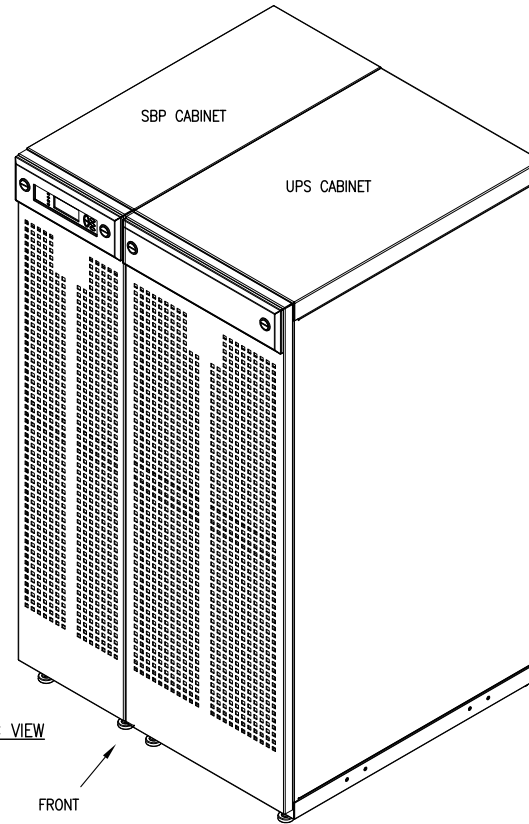
ANGLE

PROJECTION:

N/A

Weight and Runtime details for 1 module UPS (10-30kVA) with Maintenance Bypass Cabinet

		G35T10KF1B4S				G35T10KF2B4S				G35T10KF3B4S				G35T10KF4B4S				G35T15KF2B4S				G35T15KF3B4S				G35T15KF4B4S				G35T20KF2B4S				G35T20KF3B4S				G35T20KF4B4S				G35T30KF3B4S				G35T30KF4B4S			
Battery position	No. of bat shelves	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min	Net Weight of Solution		Runtime in Min															
		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg		in lbs	in kg																
UPS	1	991	450	6	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a															
UPS	2	1194	542	18	1194	542	18	n.a	n.a	n.a	n.a	n.a	n.a	1194	542	10	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a														
UPS	3	1396	634	32	1396	634	32	1396	634	32	n.a	n.a	n.a	1396	634	18	1396	634	18	n.a	n.a	n.a	1183	537	12	1183	537	12	n.a	n.a	n.a	1183	537	6	n.a	n.a	n.a												
UPS	4	1599	726	47	1599	726	47	1599	726	47	1599	726	47	1599	726	27	1599	726	27	1599	726	27	1385	629	18	1385	629	18	1385	629	18	1385	629	10	1385	629	10												



- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. CABLE ENTRY IS FROM REAR SIDE OF THE UNIT OR THROUGH CONDUIT BOX. REFER TO UPS DRAWING WITH CONDUIT BOX (PROVIDED ON WEB)
 4. FRONT AND REAR SERVICE ACCESS IS REQUIRED.
 5. FOR NET WEIGHT OF UNIT, CONFIGURATION AND RUNTIME DETAILS REFER TO TABLE ABOVE
 6. FOR OPERATING TEMPERATURE PLEASE REFER SHEET-3
 7. BATTERY RUN TIMES ARE THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.

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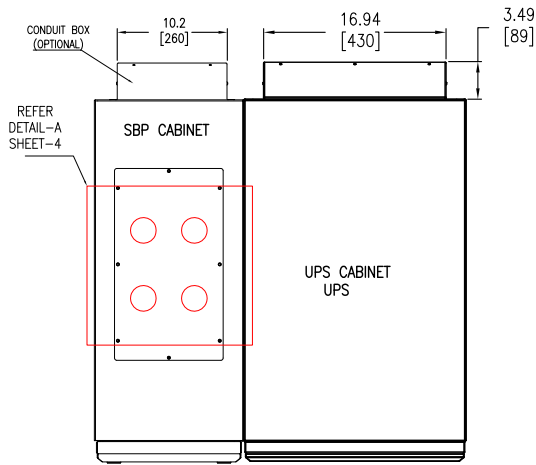
TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP SOLUTION ISOMETRIC
 PROJECT: DRAWINGS SHEET 2 OF 11

DWG NO: G35T10K30FWSBP-1MOD
 DRAWN BY: SHAHID ALI 14-OCT-11
 ENGINEER: T.MULLER 25-10-11
 APPROVED BY: B.SHERIDAN 25-10-11

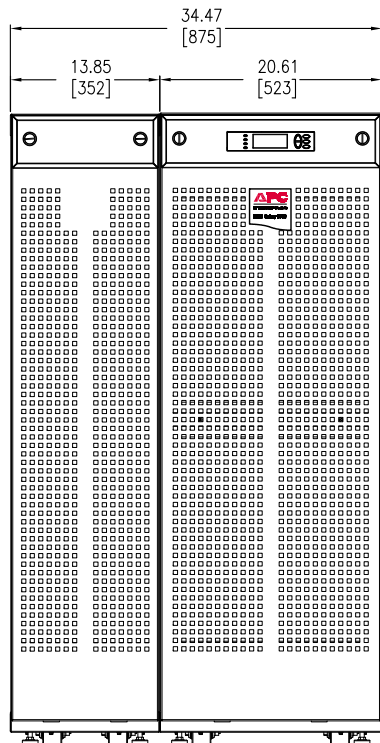
REV: 0
 THIRD ANGLE PROJECTION

NOTE.

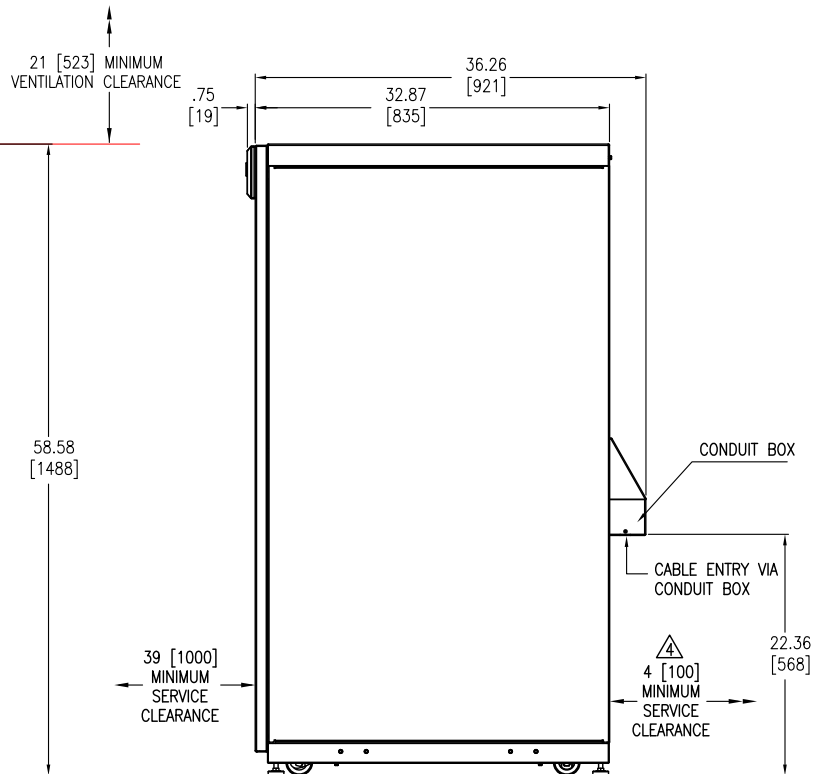
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2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS), UNLESS OTHERWISE SPECIFIED.
- △4. FRONT AND REAR SERVICE CLEARANCE AND TOP COOLING CLEARANCE IS REQUIRED. FOR REAR ACCESS USE FLEXIBLE CONDUIT WITH SUFFICIENT LENGTH TO ALLOW UNIT TO BE MOVED OUT FOR SERVICE
5. UPS COLOR: GRAY METALLIC
6. ENCLOSURE PROTECTION IP51
7. UPS OPERATING TEMPERATURE: 32°F [0°C] MIN. TO 104°F [40°C] MAX.
RECOMMENDED OPERATING RANGE: 59°F [15°C] TO 77°F [25°C].
8. CABLE ENTRY IS FROM TOP, BOTTOM OR THROUGH REAR CONDUIT BOX.
9. SBP COLOR; GRAY METALLIC.
- △10. FOR UPS FLOOR LOADING DATA REFER TO SHEET-10.
- △11. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.



TOP VIEW



FRONT VIEW



SIDE VIEW

△10

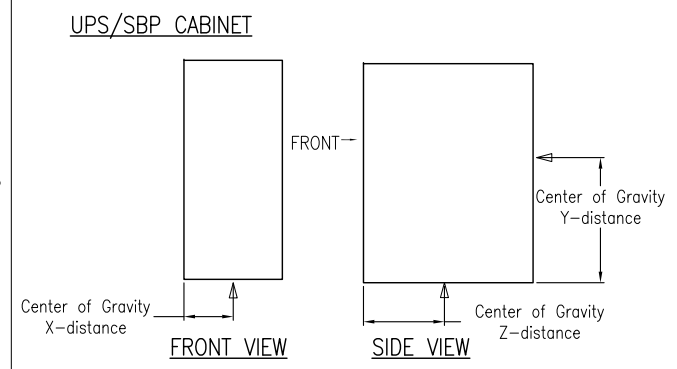
FLOOR LOADING DATA - SBP CABINET

SKU Number	Dimensions H x W x D Inch [mm]	Weight in lbs [kg]	Floor Loading Data
G35TSBP10K15F	58.7x13.8x32.9 [1490x352x835]	270 [127]	89 [432]
G35TSBP20K30F	58.7x13.8x32.9 [1490x352x835]	270 [127]	89 [432]

CENTER OF GRAVITY DETAILS △11

Rating	SKU Number	COG Details for UPS in Inches [mm]		
		X-Distance	Y-Distance	Z-Distance
10kVA	G35T10KF1B4S	9.72 [247]	25.20 [640]	15.79 [401]
	G35T10KF2B4S	9.84 [250]	22.99 [584]	15.71 [399]
	G35T10KF3B4S	9.92 [252]	22.76 [578]	15.63 [397]
	G35T10KF4B4S	9.96 [253]	23.58 [599]	15.63 [397]
15kVA	G35T15KF2B4S	9.84 [250]	22.99 [584]	15.71 [399]
	G35T15KF3B4S	9.92 [252]	22.76 [578]	15.63 [397]
	G35T15KF4B4S	9.96 [253]	23.58 [599]	15.63 [397]
20kVA	G35T20KF2B4S	9.84 [250]	22.99 [584]	15.71 [399]
	G35T20KF3B4S	9.92 [252]	22.76 [578]	15.63 [397]
	G35T20KF4B4S	9.96 [253]	23.58 [599]	15.63 [397]
30kVA	G35T30KF3B4S	10.16 [258]	23.90 [607]	15.51 [394]
	G35T30KF4B4S	10.16 [258]	24.49 [622]	15.47 [393]

SKU Number	COG Details for SBP in Inches (mm)		
	X-Distance	Y-Distance	Z-Distance
G35TSBPAR10K15F	6.92 (176)	30 (762)	12.71 (323)
G35TSBPAR20K30F			



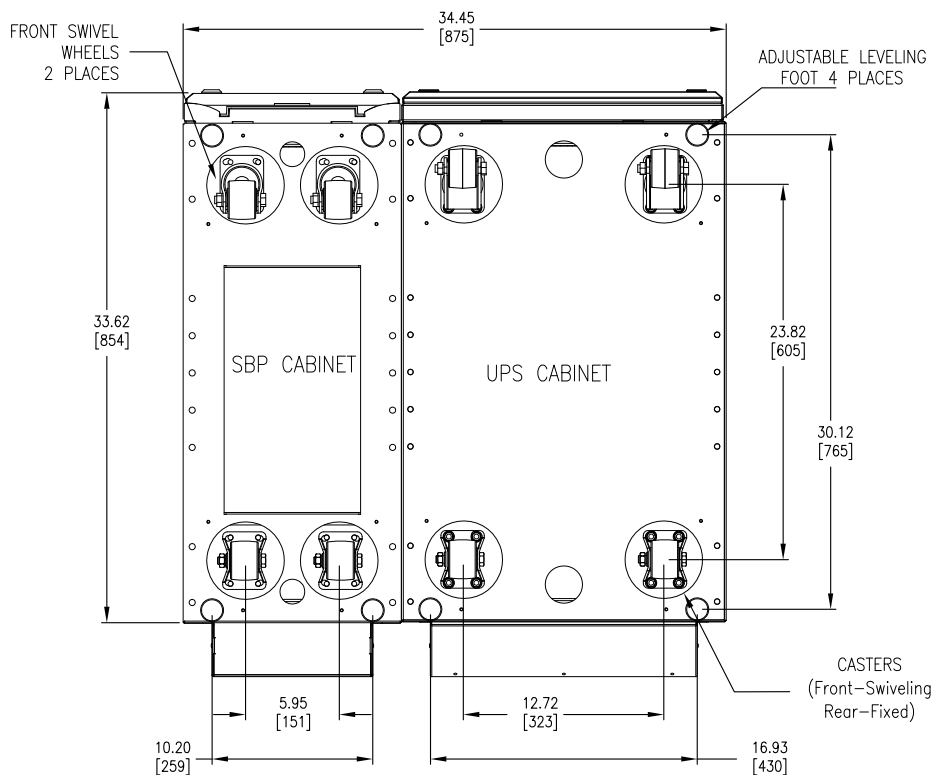
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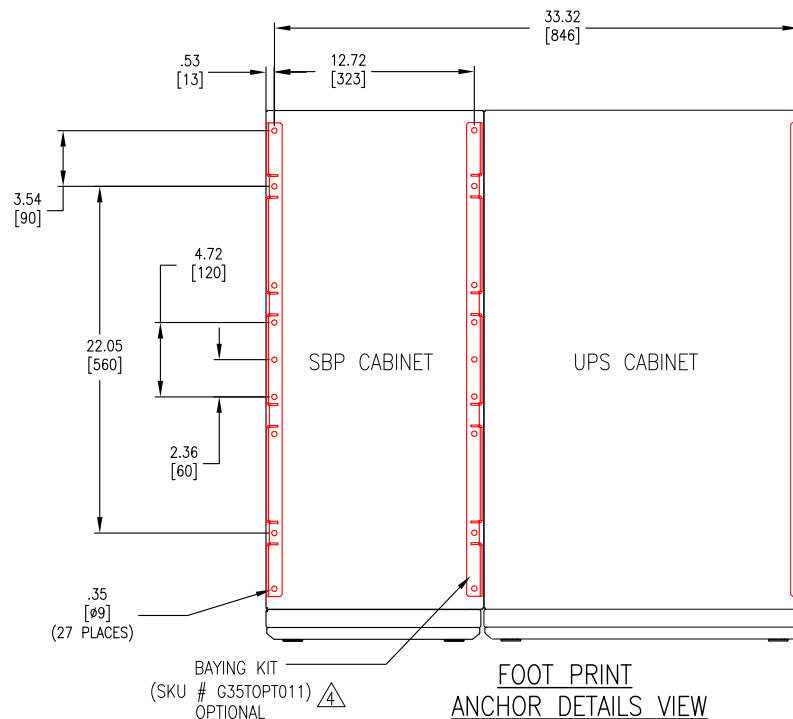
TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP SOLUTION-GENERAL ARRANGEMENTS
 PROJECT: DRAWINGS SHEET 3 OF 11

DWG NO: G35T10K30FWSBP-1MOD
 DRAWN BY: SHAHID ALI 14-OCT-11
 ENGINEER: T.MULLER 25-10-11
 APPROVED BY: B.SHERIDAN 25-10-11

REV: 0
 THIRD ANGLE PROJECTION

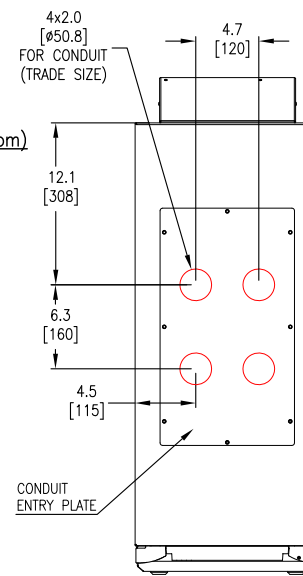


BOTTOM VIEW



SBP CABINET

DETAIL-A KNOCKOUTS (Cable Entry Top/Bottom)



TOP VIEW

NOTES:

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2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]. UNLESS OTHERWISE SPECIFIED.
- △4. OPTIONAL BAYING KIT PART NUMBER. SKU # G35TOPT011- UPS TO SBP OPTIONAL

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TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP SOLUTION-BOTTOM ANCHORING

PROJECT: DRAWINGS SHEET 4 OF 11

DWG NO: G35T10K30FWSBP-1MOD

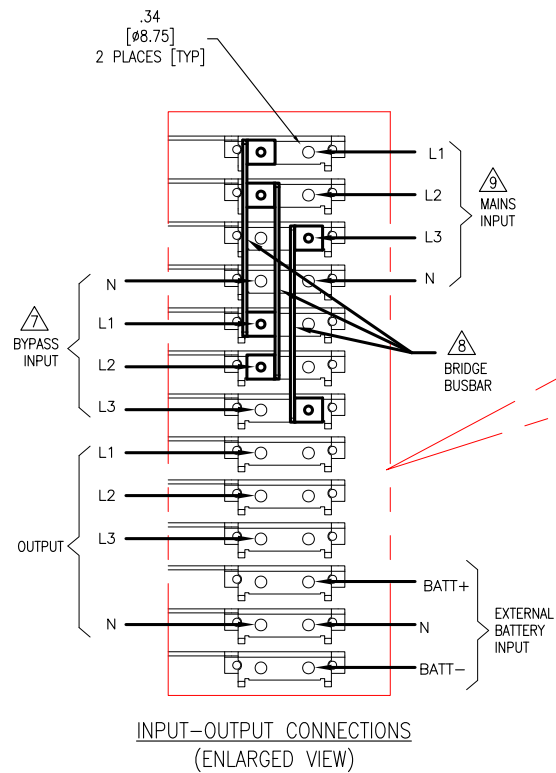
DRAWN BY: SHAHID ALI 14-OCT-11

ENGINEER: T.MULLER 25-10-11

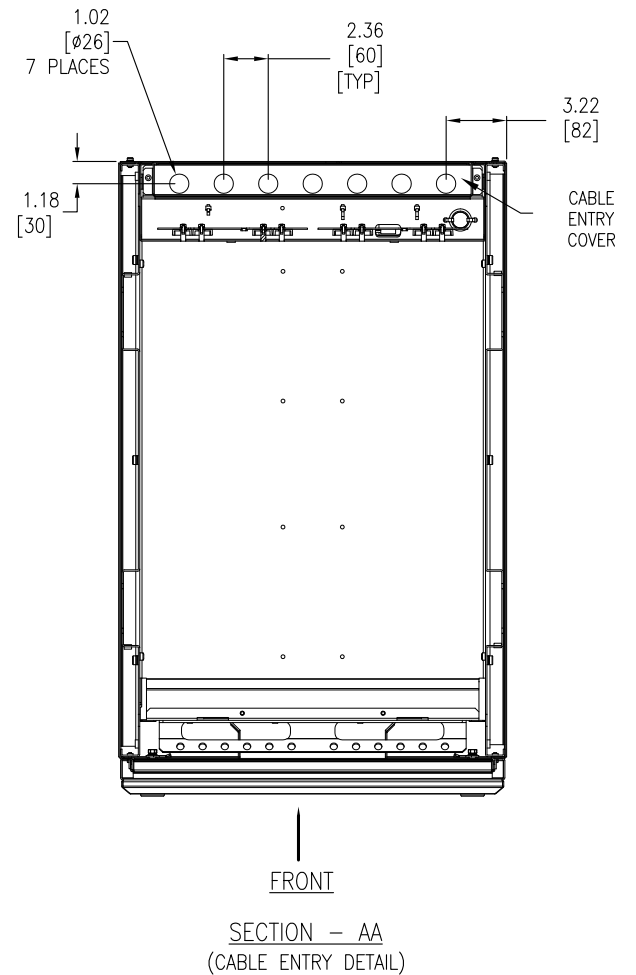
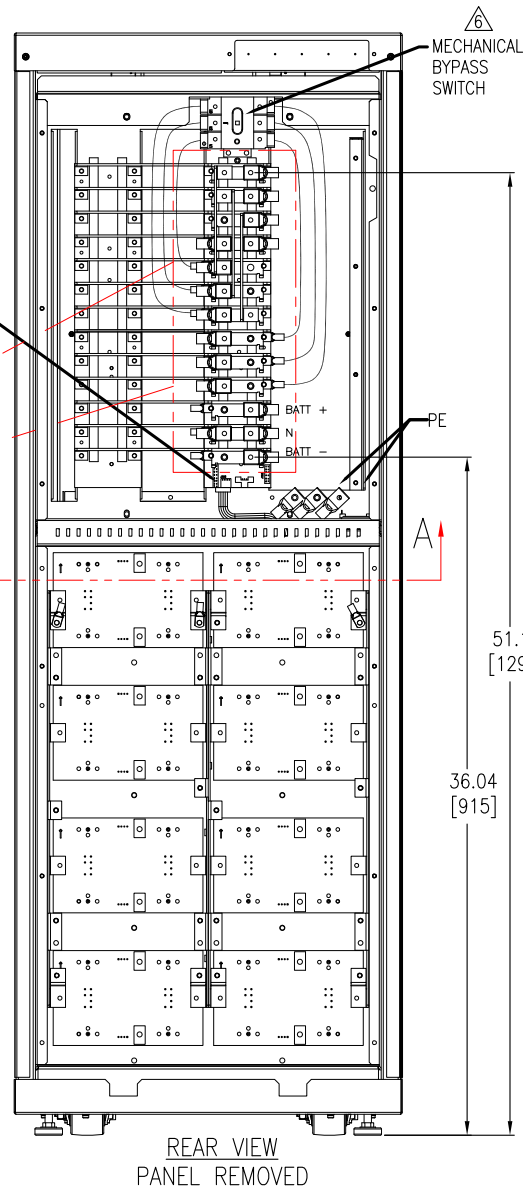
APPROVED BY: B.SHERIDAN 25-10-11

REV: 0

THIRD ANGLE PROJECTION



COMMUNICATION BOARD
(REFER TO SHEET-6
FOR DETAILS)



NOTES

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2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
5. MGE GALAXY 3500 UPS IS DESIGNED FOR SINGLE AND DUAL MAINS.
SINGLE MAINS INSTALLATION IS A DEFAULT.
- △ 6. THE MECHANICAL BYPASS SWITCH MUST BE REMOVED WHEN THE UPS IS TO RUN IN PARALLEL.
- △ 7. FOR DUAL MAINS ONLY.
- △ 8. TO BE REMOVED FOR DUAL MAINS INSTALLATION.
- △ 9. MAINS INPUT SHOULD FEED NEUTRAL FOR SINGLE MAINS CONFIGURATION ONLY.
FOR DUAL MAINS CONFIGURATION MAINS INPUT SHOULD NOT FEED THE NEUTRAL

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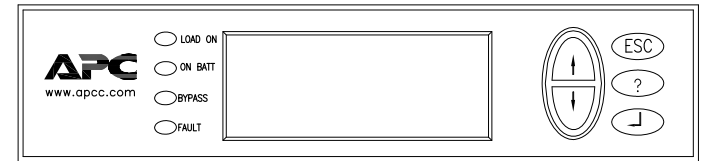
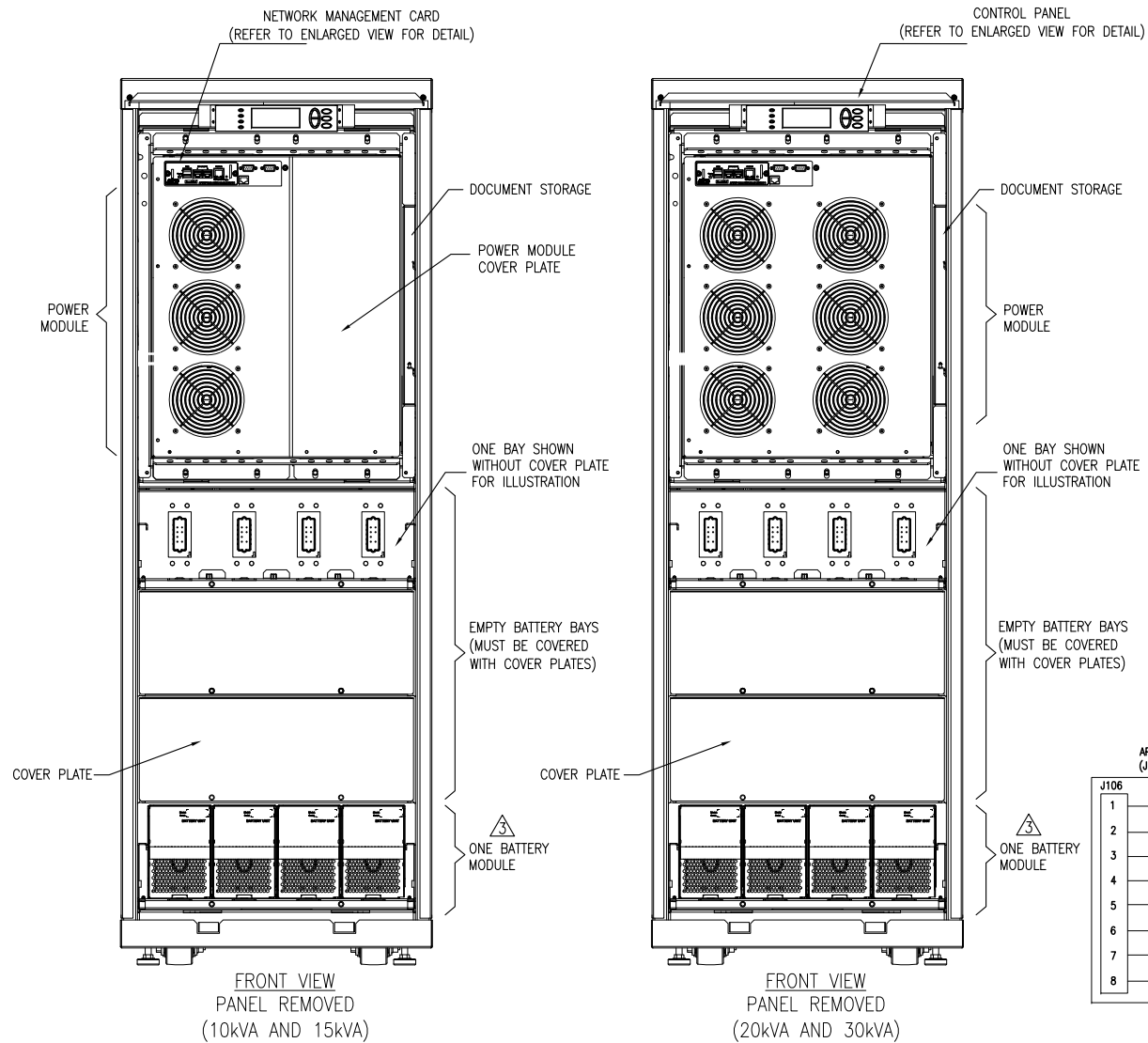
TITLE: MGE GALAXY 3500
Input:208/220V AC 3PH SINGLE/DUAL MAINS
Output:208/220V AC 3PH
10-30kVA WIDER UPS 1 MOD WITH SBP
UPS-INTERNAL VIEW

PROJECT: DRAWINGS SHEET 5 OF 11

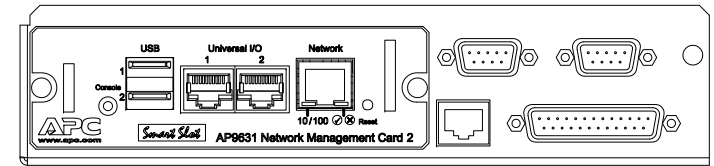
DWG NO: G35T10K30FWSBP-1MOD

DRAWN BY: JAYAPRAKASH 30-NOV-15
ENGINEER: T.MULLER 30-NOV-15
APPROVED BY: M.MAISSY 30-NOV-15

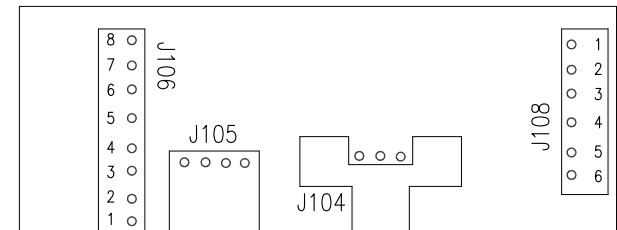
REV. 1
THIRD ANGLE PROJECTION



CONTROL PANEL
(ENLARGED VIEW)

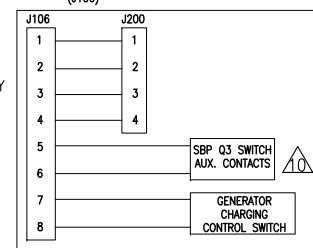


NETWORK MANAGEMENT CARD
(ENLARGED VIEW)



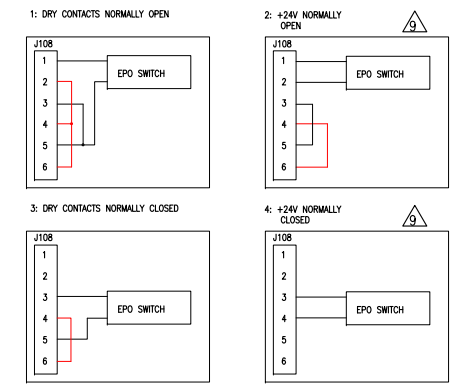
COMMUNICATION BOARD

APC SBP, AND GENERATOR CONTROL WIRING
(J106)



EPO WIRING OPTIONS (J108)

CONNECT THE EPO CABLE, USING ONE OF THE FOLLOWING 4 WIRING CONFIGURATIONS.



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. THIS DRAWING REPRESENTS THE SKU WITH ONE BATTERY MODULE.
REFER TO SHEET-2 FOR DETAILS ABOUT ADDITIONAL BATTERY MODULES.
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
5. FOR COMMUNICATION CABLES USE ONLY 28-16AWG COPPER WIRE RATED MINIMUM 250V.
6. MGE GALAXY 3500 UPS IS DESIGNED FOR SINGLE AND DUAL MAINS.
7. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
8. UPS, EPO TERMINALS MUST BE CONNECTED TO EITHER A DRY CONTACT OR 24V DC EPO SWITCH
9. THE EXTERNAL EPO +24V DC, 1500MA CIRCUIT CAN BE SUPPLIED THROUGH OTHER VENDORS.
10. FOR ONE MODULE CONFIGURATION ONLY.

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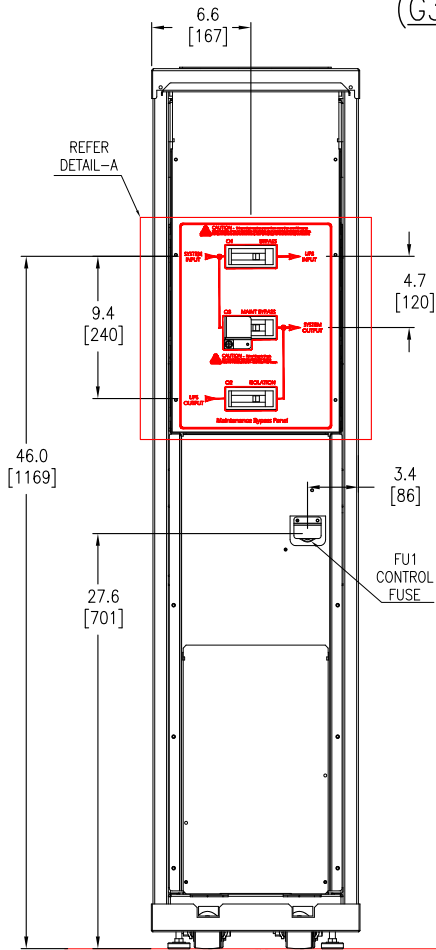


TITLE: MGE GALAXY 3500
Input:208/220V AC 3PH SINGLE/DUAL MAINS
Output:208/220V AC 3PH
10-30kVA WIDER UPS 1 MOD WITH SBP
UPS-CONTROL PANEL & NMC
PROJECT: DRAWINGS SHEET 6 OF 11

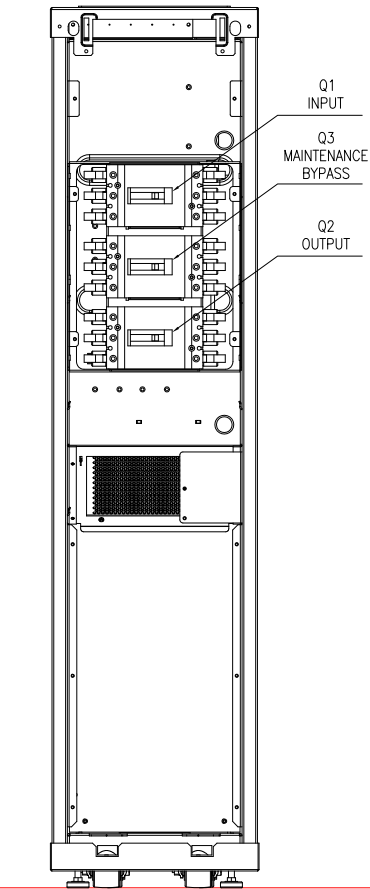
DWG NO: G35T10K30FWSBP-1MOD
DRAWN BY: SHAHID ALI 14-OCT-11
ENGINEER: T.MULLER 25-10-11
APPROVED BY: B.SHERIDAN 25-10-11

REV: 0
THIRD ANGLE PROJECTION

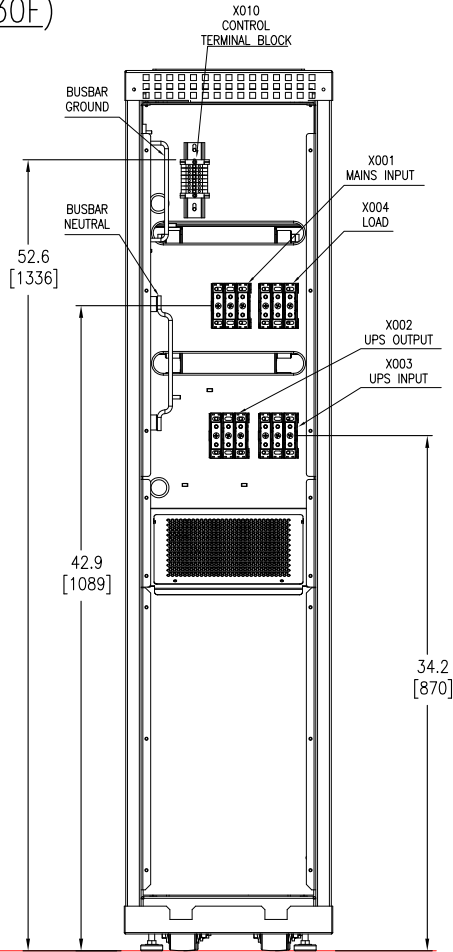
(G35TSBP10K15F/G35TSBP20K30F)



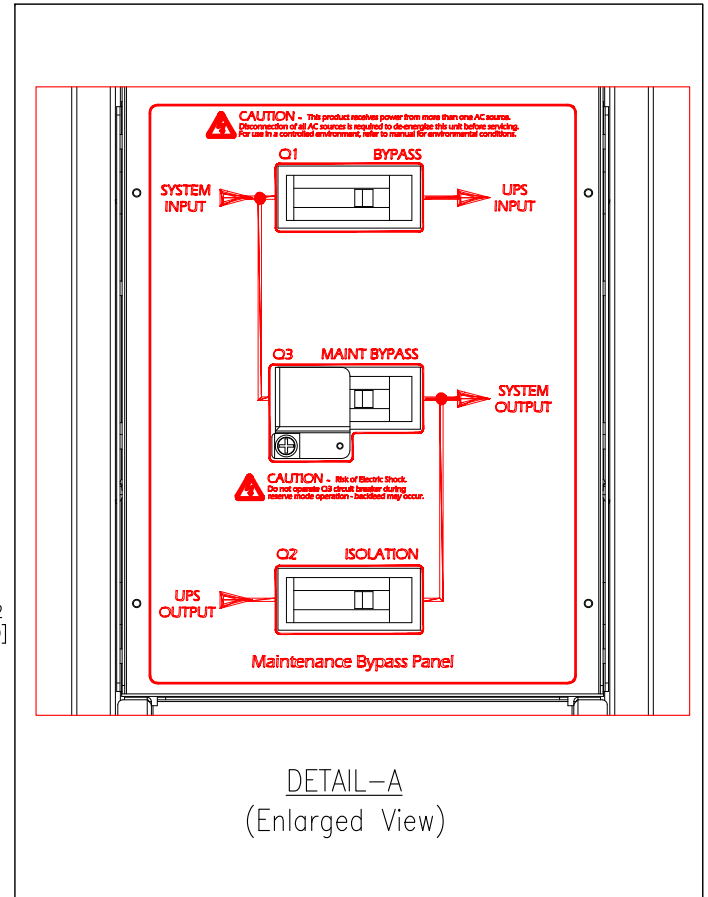
INTERNAL FRONT VIEW
(FRONT PANEL REMOVED)



INTERNAL FRONT VIEW
(FRONT PANEL AND DEAD FRONT COVERS REMOVED)



INTERNAL REAR VIEW
(REAR COVERS REMOVED)



DETAIL-A
(Enlarged View)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. ALL WIRING MUST BE 3 PHASE, 4 WIRE+ GROUND PROVIDED BY WYE-SOURCE
5. FOR 10 to 15 KVA-Q1, Q2 AND Q3 = 60A.
6. FOR 20 to 30 KVA-Q1, Q2 AND Q3 = 125A.
6. USE COPPER CONDUCTORS RATED 75° C MINIMUM (10 to 30 KVA).
7. TORQUE VALUES 10 to 30 KVA:
 TERMINAL BLOCKS (M6) 6.89 Nm (61 lbs-in)
 TERMINAL BLOCKS (M10) 25.7 Nm (227 lbs-in)
 BUSBAR (M5 OR M6) 11.3 Nm (100 lbs-in)
8. NET WEIGHT OF THE SBP UNIT 268 lbs [122 kg]

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TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP
 SBP-INETRNAL VIEW
 PROJECT: DRAWINGS SHEET 7 OF 11

DWG NO: G35T10K30FWSBP-1MOD
 DRAWN BY: SHAHID ALI 14-OCT-11
 ENGINEER: T.MULLER 25-10-11
 APPROVED BY: B.SHERIDAN 25-10-11

REV: 0
 THIRD ANGLE PROJECTION

LEGEND:	
---	AC CABLE - PROVIDED BY OTHERS
—	AC BUS

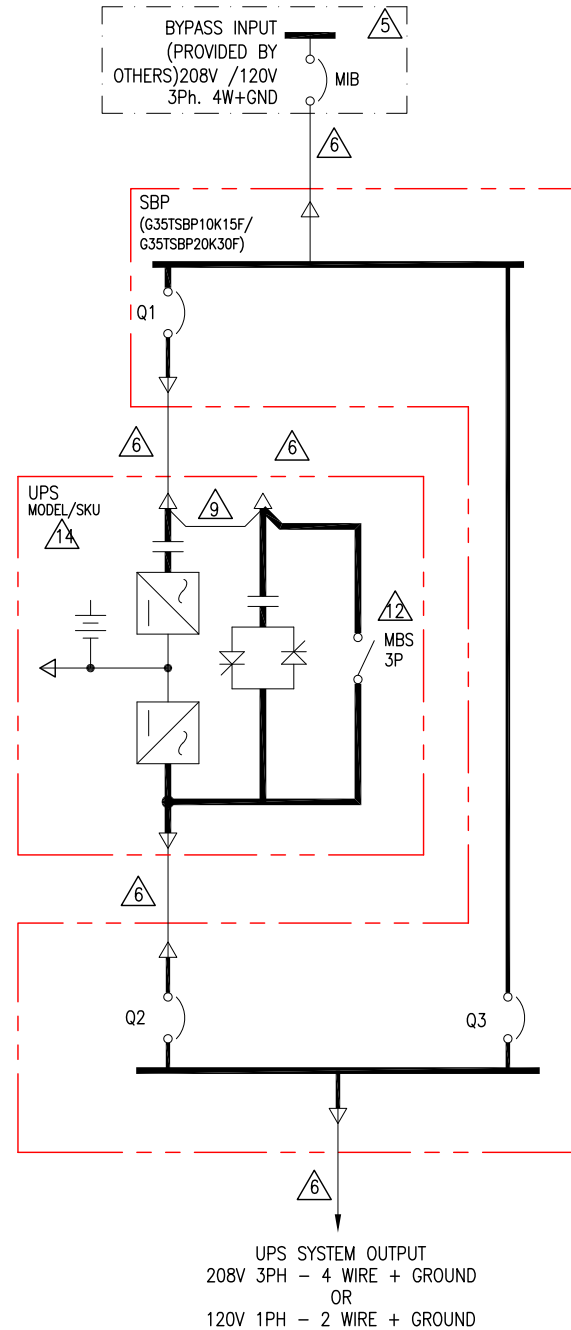
DEVICE	RATED SHORT CIRCUIT CURRENT
UPS	30kA IC SYMMETRICAL
SBP	20kA IC SYMMETRICAL

DEVICE RATING FOR G35TSBP10K15F (TO USE WITH 10 - 15kVA UPS)

DEVICE ID	RATING	TYPE	MAKE	MODEL	ACCESSORIES
Q1, Q2, Q3	60A	CB 3POLE 600V	SQUARE-D by Schneider Electric	HDF36060ABY001	2A/2B STANDARD

DEVICE RATING FOR G35TSBP20K30F (TO USE WITH 20 - 30kVA UPS)

DEVICE ID	RATING	TYPE	MAKE	MODEL	ACCESSORIES
Q1, Q2, Q3	125A	CB 3POLE 600V	SQUARE-D by Schneider Electric	HDF36125ABY001	2A/2B STANDARD



NOTES:

- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- ALL AC BREAKERS ARE 80% CONTINUOUS DUTY RATED WITH 2A/2B AUX CONTACTS FOR APC CONTROL AND COORDINATED WITH REQUIRED SYSTEM SETTINGS AS DETAILED IN PRODUCT DOCUMENTATION. ADDITIONAL 2A/2B AUX CONTACTS TO BE WIRED TO TERMINAL STRIP FOR CUSTOMER USE. BREAKER SIZING IS BASED ON NOMINAL MAINS VOLTAGE.
- AC SOURCE TO BE 208VAC, 4W, WYE CONNECTED, 3 ϕ (CONTACT Schneider Electric IF OTHER)
- AC CABLING TO BE 600V RATED, 3 PHASE, 4W+GND.
- DC SOURCE TO BE 384VDC WITH CENTER TAP, 3W+GND.
- CABLE LUGS ARE PROVIDED BY OTHERS.
- REMOVABLE BUS LINK. TO BE REMOVED FOR DUAL MAINS.
- UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
- POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
- TO BE REMOVED FOR PARALLEL INSTALLATION.
- SINGLE MODULE, FOR LINEUP CONFIGURATION ONLY.
- APPLICABLE SKU NUMBERS (Refer Sheet-2)

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TITLE: MGE GALAXY 3500
 Input: 208/220V AC 3PH SINGLE/DUAL MAINS
 Output: 208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP
 SINGLE MAIN-SYSTEM ONE LINE DIAGRAM
 PROJECT: DRAWINGS SHEET 8 OF 11

DWG NO:	G35T10K30FWSBP-1MOD	REV:	0
DRAWN BY:	SHAHID ALI	14-OCT-11	ANGLE
ENGINEER:	T.MULLER	25-10-11	PROJECTION
APPROVED BY:	B.SHERIDAN	25-10-11	N.A

LEGEND:

---	AC CABLE -- PROVIDED BY OTHERS
—	AC BUS

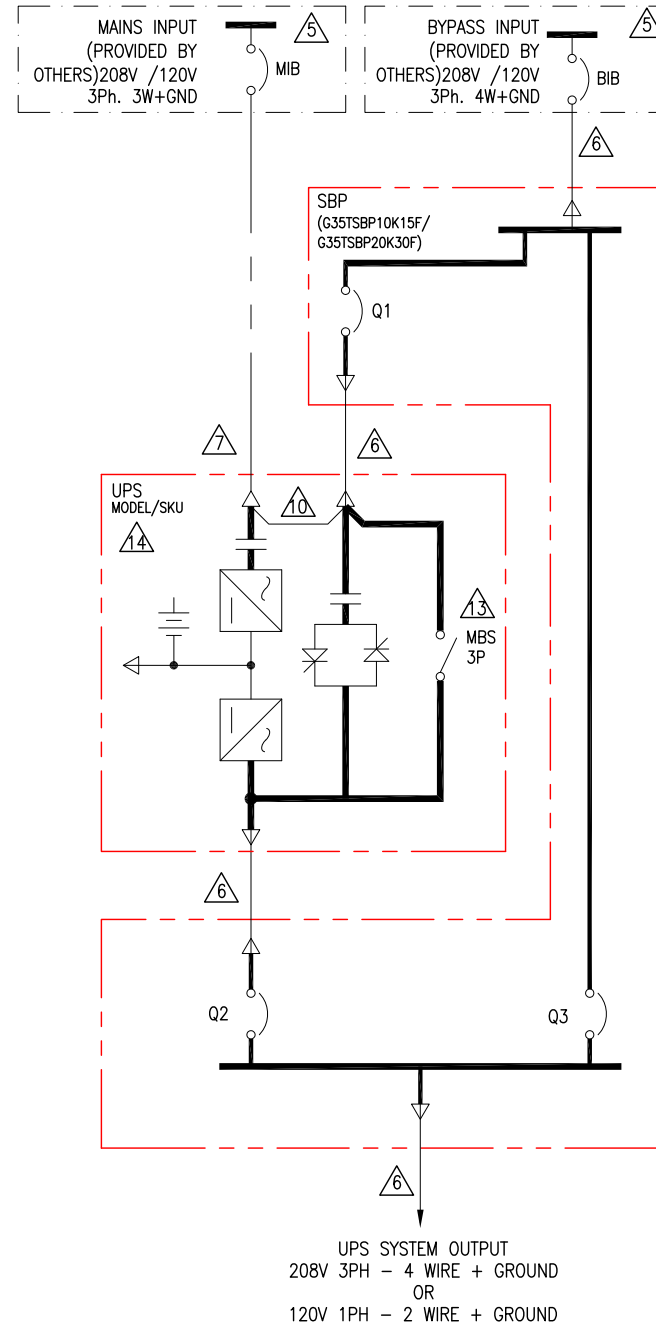
DEVICE	RATED SHORT CIRCUIT CURRENT
UPS	30kAIC SYMMETRICAL
SBP	20kAIC SYMMETRICAL

DEVICE RATING FOR G35TSBP10K15F (TO USE WITH 10 - 15kVA UPS)

DEVICE ID	RATING	TYPE	MAKE	MODEL	ACCESSORIES
Q1, Q2, Q3	60A	CB 3POLE 600V	SQUARE-D by Schneider Electric	HDF36060ABY001	2A/2B STANDARD

DEVICE RATING FOR G35TSBP20K30F (TO USE WITH 20 - 30kVA UPS)

DEVICE ID	RATING	TYPE	MAKE	MODEL	ACCESSORIES
Q1, Q2, Q3	125A	CB 3POLE 600V	SQUARE-D by Schneider Electric	HDF36125ABY001	2A/2B STANDARD



NOTES:

- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- ALL AC BREAKERS ARE 80% CONTINUOUS DUTY RATED WITH 2A/2B AUX CONTACTS FOR APC CONTROL AND COORDINATED WITH REQUIRED SYSTEM SETTINGS AS DETAILED IN PRODUCT DOCUMENTATION. ADDITIONAL 2A/2B AUX CONTACTS TO BE WIRED TO TERMINAL STRIP FOR CUSTOMER USE. BREAKER SIZING IS BASED ON NOMINAL MAINS VOLTAGE.
- AC SOURCE TO BE 208VAC, 4W, 3Ph. (CONTACT Schneider Electric IF OTHER)
- AC CABLING TO BE 600V RATED, 3 PHASE, 4W+GND.
- AC CABLING TO BE 600V RATED, 3 PHASE, 3W+GND
- DC SOURCE TO BE 384VDC WITH CENTER TAP, 3W+GND.
- CABLE LUGS ARE PROVIDED BY OTHERS.
- REMOVABLE BUS LINK. TO BE REMOVED FOR DUAL MAINS.
- UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
- POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
- SINGLE MODULE, FOR LINEUP CONFIGURATION ONLY. TO BE REMOVED FOR PARALLEL INSTALLATION.
- APPLICABLE SKU NUMBERS (Refer Sheet-2).

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TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP
 DUAL MAIN-SYSTEM ONE LINE DIAGRAM
 PROJECT: DRAWINGS SHEET 9 OF 11

DWG NO: G35T10K30FWSBP-1MOD
 DRAWN BY: JAYAPRAKASH 30-NOV-15
 ENGINEER: T.MULLER 30-NOV-15
 APPROVED BY: A.WARNER 30-NOV-15
 REV. 1
 ANGLE PROJECTION
 N.A

Galaxy 3500® 10K TO 30K UPS Frame (1 Module) with SBP Site Planning Data

Battery - Nominal Voltage : +/-192V DC

Input Voltage : 208V AC, Output Voltage : 208V AC

UPS Rating	SKU Number	System Mains Input		System Bypass Input	System Output		Battery Current(A) (in UPS Cabinet)	Recommended Over current Protection Device Ratings			UPS Mechanical Data			
		Nominal Current(A)	Maximum Current(A)	Nominal Current(A)	System output Power	Nominal Current(A)		UPS Mains Input (A)	UPS Bypass Input (A)	UPS System Output (A)	Typical Dimensions H x W x D in inches [mm] see note 15	Weight in lbs [kg] see Note 15	Floor Loading data in Lbs/ft ² [kg/m ²]	Heat Loss BTU/hr See Note 23
10KVA/8KW	G35T10KF1B4S	24.3	26.7	27.8	10KVA/8KW	27.8	27.5	35	35	35	58.7x20.6x33 [1491x532x838]	711 [323]	151 [737]	1938
	G35T10KF2B4S										58.7x20.6x33 [1491x532x838]	913 [415]	193 [947]	
	G35T10KF3B4S										58.7x20.6x33 [1491x532x838]	1115 [507]	236 [1156]	
	G35T10KF4B4S										58.7x20.6x33 [1491x532x838]	1318 [600]	279 [1367]	
15KVA/12KW	G35T15KF2B4S	36.5	40.2	41.6	15KVA/12KW	41.6	41.2	60	60	60	58.7x20.6x33 [1491x532x838]	913 [415]	193 [947]	2989
	G35T15KF3B4S										58.7x20.6x33 [1491x532x838]	1115 [507]	236 [1156]	
	G35T15KF4B4S										58.7x20.6x33 [1491x532x838]	1318 [600]	279 [1367]	
20KVA/16KW	G35T20KF2B4S	48.5	53.4	55.5	20KVA/16KW	55.5	55	80	80	80	58.7x20.6x33 [1491x532x838]	979 [445]	207 [1015]	4238
	G35T20KF3B4S										58.7x20.6x33 [1491x532x838]	1181 [537]	250 [1225]	
	G35T20KF4B4S										58.7x20.6x33 [1491x532x838]	1384 [629]	293 [1435]	
30KVA/24KW	G35T30KF3B4S	73	80.3	83.3	30KVA/24KW	83.3	82.5	125	125	125	58.7x20.6x33 [1491x532x838]	1181 [537]	250 [1225]	5896
	G35T30KF4B4S										58.7x20.6x33 [1491x532x838]	1384 [629]	293 [1435]	

Notes.

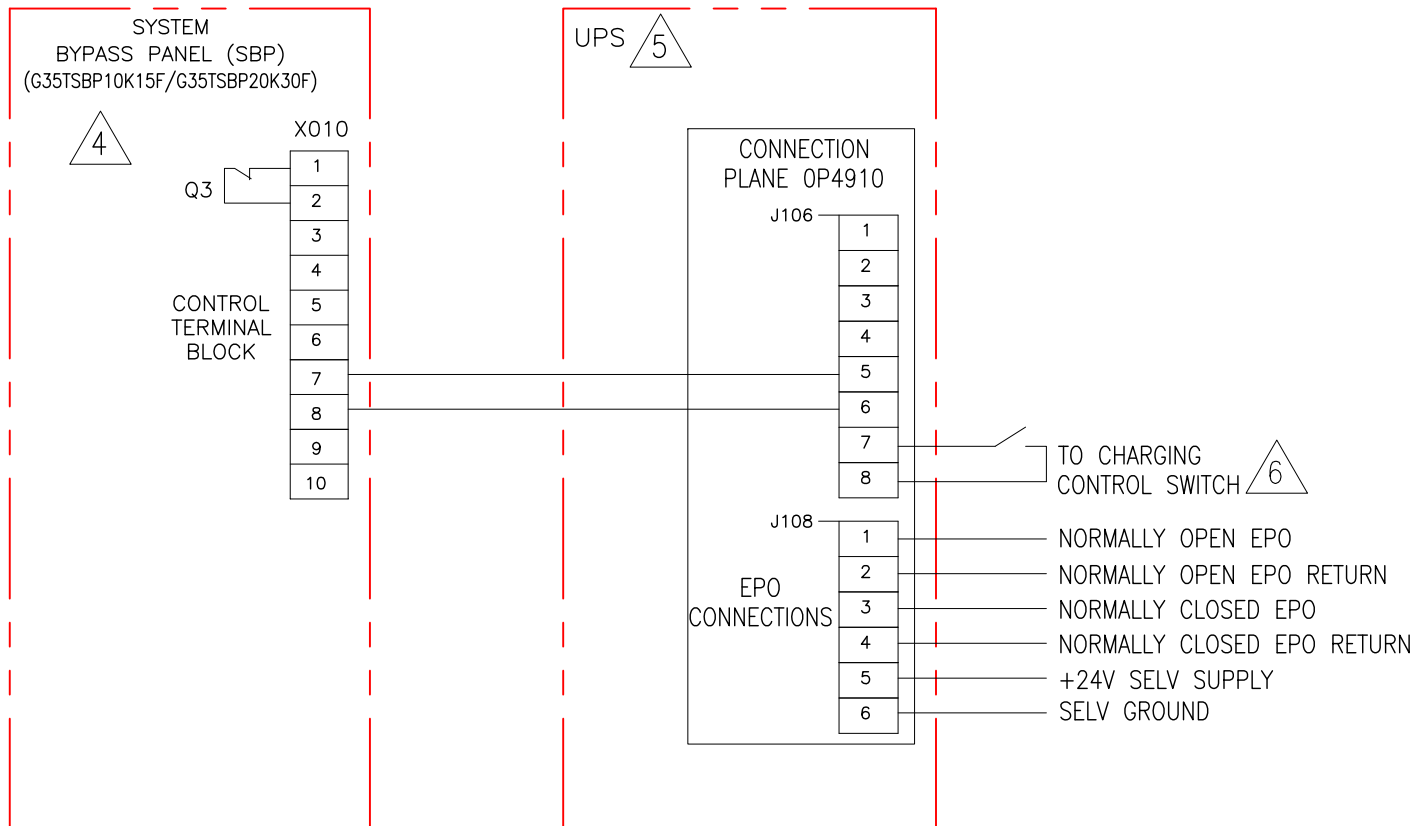
- Input current based on full rated output load..
 - Maximum (Max.) current is for duration of battery recharge.
 - Input and bypass cables must be run in separate conduits from output cables. Not more than three conductors in raceway assumed; ambient temperature of 30°C (86°F) assumed.
 - If initial load is less than UPS' rated output, it is recommended that AC input, battery, and AC output wiring and over current protection be sized to UPS' full load rating to accommodate possible future expansion.
 - Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
 - DC cables should be sized for a total maximum of less than 1% of CB rating.
 - OCPD = Over current Protection Device. Recommended represents 125% of nominal full load current (continuous) per NEC 215.
 - Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC 310-15(b)(4).
 - Wiring requirements:
 - AC Input/Output: 3Ø, 3 or 4 wire + ground, depending on UPS configuration.
 - See Installation Manual and submittal drawings for specific instructions.
 - DC Input: 2 wire (positive and negative) + ground
 - All wiring to be in accordance with all applicable national and/or local electrical codes.
 - DC cabling should be sized to give < 1% voltage drop at the nominal battery discharge current using three-wire separate conductors in positive, centre-tap and negative poles
 - Minimum access Clearance on all drawings.
 - Bottom cable entry through removable access plates. Punch plates to suit conduit size, then replace.
 - Control wiring and power wiring must be run in separate conduit.
 - Weights and dimensions shown do not include battery cabinet(s), distribution cabinet(s), or other options.
 - Backup emergency generator must be properly sized for UPS application and equipped with an isochronous governor for frequency regulation, and a UPS-compatible voltage regulator for voltage stability.
 - Input : THDI < 5% at full load.
 - Output : THDU < 1.5% Linear Load, < 3.5% Non Linear Load
 - If site configuration requires an external maintenance bypass, phase parity between UPS input and UPS bypass must be ensured. Consult Schneider Electric applications engineer.
 - References are per NEC 1999. Consult local codes for possible variations.
 - Narrow Cabinet dimensions – 13.9 in. wide.
 - Weight references installed weight with fully populated batteries and power modules.
 - BTU Rating: Batteries fully charged is a continuous rating.
- Additional Notes:**
- Temperature rating of conductors: 90°C (194°F). Reference NEC Table 310-16, 75°C column, using copper conductors. 75°C (167°F) cable terminal conductors assumed.
 - Neutral conductor must be sized for 1.73 time phase current for full SMPS loads (50mm recommended)
 - BTU rating for 10-30kVA transformer cubicles with or with our integrated bypass/distribution panel = 2433BTU/hr full load –batteries fully charged.
24. Ratings of the cables and overcurrent devices supplied for information only. User to consult with their engineering services before adopting

EFFICIENCY DETAILS				
SYSTEM	25% LOAD	50% LOAD	75% LOAD	100% LOAD
10KVA 400V	92.9	94.8	94.9	94.9
15KVA 400V	92.9	95.3	95.5	95.5
20KVA 400V	94.4	95.5	95.5	95.4
30KVA 400V	94.1	96	95.9	96.1
40KVA 400V	95	96	95.9	95.5

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TITLE: MGE GALAXY 3500 Input:208/220V AC 3PH SINGLE/DUAL MAINS Output:208/220V AC 3PH 10-30kVA WIDER UPS 1 MOD WITH SBP SITE PLANNING GUIDE	DWG NO: G35T10K30FWSBP-1MOD	REV. 1
PROJECT: DRAWINGS	DRAWN BY: JAYAPRAKASH	27-JUL-16
SHEET 10 OF 11	ENGINEER: T.MULLER	27-JUL-16
	APPROVED BY: M.MAISSY	27-JUL-16
		ANGLE PROJECTION N.A



NOTES:

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2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. USE ONLY 1-1.5 Sqmm COPPER WIRE FOR EPO CONNECTION.
- △ 4. WHEN Q3 IS CLOSED, SIGNALS ARE FED BACK TO THE UPS CONTROLLER.
- △ 5. APPLICABLE SKU : PLEASE REFER SHEET NUMBER 2.
- △ 6. WHEN PINS 7 AND 8 ARE CLOSED, THE UPS CHARGES BATTERIES WITH A PRE-DEFINED PERCENTAGE (0-25-50-75-100%) OF MAXIMUM CHARGING POWER. TO BE USED IN GENERATOR APPLICATIONS, OR IF SPECIAL CODES REQUIRES CONTROL OF CHARGING.

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TITLE: MGE GALAXY 3500
 Input:208/220V AC 3PH SINGLE/DUAL MAINS
 Output:208/220V AC 3PH
 10-30kVA WIDER UPS 1 MOD WITH SBP
 SYSTEM WIRING DIAGRAM

DWG NO: G35T10K30FWSBP-1MOD

REV: 0

DRAWN BY: SHAHID ALI 14-OCT-11

ANGLE

ENGINEER: T.MULLER 25-10-11

PROJECTION

PROJECT: DRAWINGS SHEET 11 OF 11

APPROVED BY: B.SHERIDAN 25-10-11

N.A