



**LEGEND:**

-----	AC CABLE - PROVIDED BY OTHERS
-----	DC CABLE - PROVIDED BY OTHERS

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
  - PLEASE 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, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
  - AC SOURCE TO BE 575VAC OR 600VAC 3PH 3 WIRE+GROUND (CONTACT SCHNEIDER ELECTRIC IF OTHER).
  - AC CABLING TO BE 600V RATED, 3 WIRE+GROUND.
  - BYPASS SOURCE TO BE IDENTICAL TO OUTPUT CONFIGURATION 3 WIRE+GROUND OR 4 WIRE+GROUND.
  - AC CABLING TO BE 600V RATED 3 WIRE+GROUND OR 4 WIRE+GROUND. SEE NOTE-6
  - MAXIMUM RATED SHORT CIRCUIT CURRENT IS 65KAIC.
  - QUANTITY OF BATTERY CABINETS BASED ON CAPACITY AND BACKUP TIME.
  - CABLE LUGS ARE NOT PROVIDED.
  - UPSTREAM AND DOWNSTREAM BYPASS CABLE TYPE AND LENGTHS SHALL BE MAINTAINED EQUAL FOR ALL UPSs INSTALLED IN EACH INTEGRATED PARALLEL SYSTEM. ANY DEVIATION WILL CREATE AN UNEQUAL SHARING OF LOAD CURRENTS IN BYPASS MODE.
  - IF MBC IS PROVIDED BY OTHER, CONSULT WITH FACTORY FOR MINIMUM WIRING REQUIREMENTS.

DEVICE RATING			
DEVICE	RATING	TYPE	SE MANUFACTURER P/N
Q1	2000AF/1600AT	3P, MCCB 600V	RKF36200
Q4S	1600AF/1600AT	3P, MCCB 600V	RKF36160CU31A
Q5N	1600AF/1600AT	3P, MCCB 600V	RKF36160CU31A
Q3BP	1600AF/1600AT	3P, MCCB 600V	RKF36160CU31A
QF1	2500AF/2500AT	3P, MCCB 500V DC NOM, 600VDC MAX.	PCF-DC2500

DUAL MAINS, BOTTOM FEED, SINGLE MODULE WITH MBC

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TITLE: MGE EPS 8000  
 INPUT: 575V, 600V, 3PH, DUAL MAINS (BOTTOM ENTRY)  
 OUTPUT: 575V, 600V, 1125KVA 1MOD. WITH MBC  
 SYSTEM ONE LINE DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 2

DWG NO: E8TUPS1125KLB-SM-1MOD-MBC-SD

DRAWN: C KRISHNA 24-JUN-15

ENGINEER: IRENE K 24-JUN-15

APPROVED: YEN NGUYEN 24-JUN-15

REV. 0

ANGLE PROJECTION

N.A

**EPS 8000® UPS 1000-1125kVA (1 Module) site Planning Data**

Input and output Voltage : 575 VAC - 600 VAC  
DC bus voltage : 480V DC

UPS RATING			Individual UPS AC Mains Input					Individual UPS AC Bypass Input				BATTERY					Individual UPS AC Output			
kVA	kW	Voltage	Nominal (A)	Maximum (A)	MIB 100% OCPD (A)	MIB 80% OCPD (A)	Recommended Cable Rating	Nominal (A)	BIB 100% OCPD (A) see note 2	BIB 80% OCPD (A) see note 2	Recommended Cable Rating	Max (A) 400VDC	Nominal (A) 480VDC	QF1 100% OCPD (A)	QF1 80% OCPD (A)	Recommended Cable Rating	Nominal (A)	Q5N / Q3BP 100% OCPD (A) see note 2	Q5N / Q3BP 80% OCPD (A) see note 2	Recommended Cable Rating
1125	1125	600	1274	1391	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	1083	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2960	2461	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	1083	1600AF/1600AT	2000AF/1600AT	4x600Kcmil
1100	1100	600	1260	1375	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	1058	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2894	2407	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	1058	1600AF/1600AT	2000AF/1600AT	4x600Kcmil
1000	1000	600	1145	1250	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	962	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2631	2187	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	962	1600AF/1600AT	2000AF/1600AT	4x600Kcmil
1125	1125	575	1329	1452	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	1130	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2960	2461	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	1130	1600AF/1600AT	2000AF/1600AT	4x600Kcmil
1100	1100	575	1314	1435	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	1104	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2894	2407	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	1104	1600AF/1600AT	2000AF/1600AT	4x600Kcmil
1000	1000	575	1195	1305	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	1004	1600AF/1600AT	2000AF/1600AT	4x600Kcmil	2631	2187	2500AF/2500AT	3000AF/2500AT	6x600Kcmil	1004	1600AF/1600AT	2000AF/1600AT	4x600Kcmil

- Notes**
- Input current based on full rated output load.
  - BIB and Q5N/Q3BP breakers are sized for 10% low line voltage. Current will increase by 10% of the nominal current at full load.
  - Input and bypass cables must be rated @OCPD trip rating and run in separate conduits or cable tray from output cables.
  - 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 ratings to allow for future expansion. Contact Schneider Electric Applications Engineering for derated systems recommendations.
  - Nominal battery voltage is shown at 2.0 volts/cell per NEC 480.2.
  - DC cables should be sized for a total maximum of CB rating and maximum voltage drop of 2VDC.
  - OCPD= Rated Over Current Protection Device. Recommended OCPD devices are 80% and 100% of 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/Bypass/Output: 3Ø, 3 or 4 wire + ground, depending on UPS configuration. See Installation Manual 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.
  - Minimum access clearance per UPS drawings.
  - Top 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.
  - 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.
  - If site configuration requires an external maintenance bypass, phase parity between UPS input and UPS bypass must be ensured. Contact Schneider Electric Applications Engineering.
  - References are per NEC 2014. Consult local codes for possible variations.
  - Final selections are responsibility of engineer of record based on installed conditions and SCC/selective coordination/arc-flash analysis

- Additional Notes:**
- Reference NEC Table 310.15(B)(16), 75°C column, using copper conductors. 75°C (167°F) cable terminal conductors assumed.
  - Ratings of cables and overcurrent devices supplied for information only. User to consult with their engineering services before adopting.

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INPUT: 575V, 600V, 3PH, DUAL MAINS (BOTTOM ENTRY)  
OUTPUT: 575V, 600V, 1125kVA 1MOD. WITH MBC  
SITE PLANNING DATA

DWG NO: E8TUPS1125KLB-SM-1MOD-MBC-SD

REV. 0

DRAWN: C KRISHNA 24-JUN-15  
ENGINEER: IRENE K 24-JUN-15

ANGLE PROJECTION N.A

PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 2

APPROVED: YEN NGUYEN 24-JUN-15