



DEVICE RATING (FOR UPS-50/60/80kVA UNLESS OTHERWISE SPECIFIED AND BATTERY CABINET/BATTERY BREAKER BOX)						
DEVICE ID	CURRENT RATING	RATED VOLTAGE	TYPE	MAKE	MODEL	ACCESSORIES
Q001	250A	690V AC	3P SWITCH DISCONNECTOR	Schneider Electric	COMPACT NSX250NA	1-Aux. CONTACT
Q501	250A	690V AC	3P SWITCH DISCONNECTOR	Schneider Electric	COMPACT NSX250NA	1-Aux. CONTACT
Q528	160A	690V AC	3P LOAD SWITCH	Schneider Electric	INS160MG	1-Aux. CONTACT
Q601	160A	690V AC	3POLE 2 POSITION SELECTOR SWITCH	KRAUS&NAMER	C125 7AP206	2 AUX. CONTACT
Q201	250A	690V AC	4 POLE SWITCH DISCONNECTOR	Schneider Electric	NSX250NA	1 AUX/TRIP CONTACT MCCB+LAOD SWITCH (1CO)
Q202 (FOR 50kVA UPS)	160A	500V DC	4P DC BREAKER	Schneider Electric	NSX250S DC	1-Aux. CONTACT
Q202 (FOR 60kVA UPS)	200A	500V DC	4P DC BREAKER	Schneider Electric	NSX250S DC	1-Aux. CONTACT
Q202 (FOR 80kVA UPS)	250A	500V DC	4P DC BREAKER	Schneider Electric	NSX250S DC	1-Aux. CONTACT

BATTERY CABINET CONFIGURATIONS			
UPS RATING	△10 RUNTIME IN MINUTES	BATTERY CONFIG NO.	BATTERY CONFIG SKUs
50kVA	15	CONFIG-1	(1)GUPXCAB800IEC + (32)BATXP12V3000GNB + (1)GUPXCD50KIEC OR (1)GUPXCDO0KIEC
	30	CONFIG-2	(1)GUPXCAB600IEC + (1)GUPXCAB800AIEC + (64)BATXP12V1800GNB + (1)GUPXCD50KIEC OR (1)GUPXCDO0KIEC
	60	CONFIG-2	(1)GUPXCAB800IEC + (1)GUPXCAB800AIEC + (64)BATXP12V3000GNB + (1)GUPXCD50KIEC OR (1)GUPXCDO0KIEC
60kVA	15	CONFIG-1	(1)GUPXCAB800IEC + (32)BATXP12V3000GNB + (1)GUPXCD60KIEC OR (1)GUPXCDO0KIEC
	30	CONFIG-2	(1)GUPXCAB800IEC + (1)GUPXCAB800AIEC + (64)BATXP12V3000GNB + (1)GUPXCD60KIEC OR (1)GUPXCDO0KIEC
	60	CONFIG-3	(1)GUPXCAB800IEC + (2)GUPXCAB800AIEC + (96)BATXP12V3000GNB + (1)GUPXCD60KIEC OR (1)GUPXCDO0KIEC
80kVA	15	CONFIG-1	(1)GUPXCAB800IEC + (32)BATXP12V3000GNB + (1)GUPXCD80KIEC OR (1)GUPXCDO0KIEC
	30	CONFIG-2	(1)GUPXCAB800IEC + (1)GUPXCAB800AIEC + (64)BATXP12V3000GNB + (1)GUPXCD80KIEC OR (1)GUPXCDO0KIEC
	60	CONFIG-3	(1)GUPXCAB800IEC + (2)GUPXCAB800AIEC + (96)BATXP12V3000GNB + (1)GUPXCD80KIEC OR (1)GUPXCDO0KIEC

BATTERY BREAKER BOX CONFIGURATIONS		
UPS RATING	△10 RUNTIME IN MINUTES	BATTERY BREAKER BOX CONFIG SKUs
50kVA	15/30/60	GUPXCD50BIEC
60kVA		GUPXCD60BIEC
80kVA		GUPXCD80BIEC

LEGEND:
 - - - - - AC CABLE - PROVIDED BY OTHERS
 - - - - - DC CABLE - PROVIDED BY OTHERS

- NOTES:**
- INSTALLATION MUST COMPLY WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
 - PLEASE REFER TO Schneider Electric PRODUCT MANUALS FOR DETAILS.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - △4. BYPASS: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE TN-S, TN-C, TT.
 MAINS: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE FOR TN-S, TN-C, TT.
 OUTPUT: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE FOR TN-S, TN-C, TT..
 - ALL AC POWER CABLING TO BE 600V RATED.
 - DC CABLING TO BE U₀/U 1.8kV/3kV RATED, 2 WIRE.
 - UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
 - POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
 - CABLE LUGS ARE NOT PROVIDED FOR EXTERNAL CABLES, SHALL BE PROVIDED BY OTHERS.
 - △10. BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER, ASSUMED FOR OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
 - △11. FOR DETAILS REFER TO SHEET-2.
 - △12. MAXIMUM DISTANCE BETWEEN UPS AND BATTERY CABINETS IS 30 METERS.
 - △13. TO USE BREAKERS IN PLACE OF SWITCHES CONTACT SCHNEIDER ELECTRIC FOR AN ETO.

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Schneider Electric

TITLE: GUTOR PXC
 Input: 380/400/415V 3PH 46-54/55-65Hz
 Output: 50/60/80kVA 380/400/415V 3PH 50/60Hz
 UPS WITH BATTERY OPTIONS
 SYSTEM ONE LINE DIAGRAM

DWG NO: GUPXC50K80H-SD
 DRAWN: BALAMURUGAN
 ENGINEER: H GOHL/G RIZZA

REV. 1
 28-AUG-17
 05-SEP-17

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 2
 APPROVED: I KENNEDY/W KOERNER

ANGLE PROJECTION: N/A

Gutor PXC[®] 50/60/80kVA UPS 1 Module UPS (3 phase input and 3 phase output) Site Planning Data

Mains Input Voltage : 380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N.PE))

Output Voltage :380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N.PE))

Bypass Input Voltage : 380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N.PE))

Battery-Nominal Voltage : 384V DC

UPS Rating in kVA	SKU Number (Frame+ UPS Module+ UPS I/O Box)	System Mains Input		System Bypass Input	System Output		Battery Current (A)		Recommended External Over current Protection Device (Breaker /Fuse)		Recommended Cable Sizes in mm ²			Recommended Cable Sizes for UPS to Battery Cabinets (<30meters) in mm ²
		Nominal Current (A) @ 380V/ 400V/ 415V	Maximum Current (A) @ 380V/ 400V/ 415V	Nominal Current (A) @ 380V/ 400V/ 415V	Nominal Output (kVA)	Nominal Current (A) @ 380V/ 400V/ 415V	Nominal at full load and nominal battery voltage	Nominal at full load and minimum battery voltage	Mains Input	Bypass Input	Input	Bypass	Output	
50	GUPXCUPSH60+ GUPXCUPS05+ GUPXCINC02HIEC	82/78/75	107/101/98	76/72/70	50	76/72/70	110.5	130	125A	100A	25	16	16	50
60	GUPXCUPSH60+ GUPXCUPS06+ GUPXCINC02HIEC	94/90/86	122/117/112	91/87/83	60	91/87/83	132.5	155.9	160A	125A	35	16	16	70
80	GUPXCUPSH80+ GUPXCUPS08+ GUPXCINC02HIEC	126/120/115	164/156/150	122/115/111	80	122/115/111	176.5	207.6	200A	160A	50	25	25	95

Notes.

- Nominal Input current based on nominal mains voltage + batteries fully charged at rated load.
- Maximum Input current based on fully battery recharge + nominal mains voltage at rated load.
- Suggested input overcurrent protection based on continuous full load.
- Nominal battery voltage assumed to be 2.0 volts/ cell (lead technology)
- Over current protection device rating selection based on Nominal input current is acceptable provided battery recharge time is short.
Consult Schneider Electric for application specific assistance.
- Cable sizes are based on table 52-C2 of IEC 60364-5-52 with the following assertions:
 - 90°C conductors
 - An ambient temperature of 30°C
 - Use of copper conductors
 - If the ambient temperature is greater than 30°C, larger conductors are to be selected with the corrections factors of the IEC.
- Protective earth (PE) cables are to be sized in accordance with IEC 60364-5-54 Article 543 and Table 54.3.
- Final selections are responsibility of engineer of record based on installed conditions and SCC/Selective Co-ordination/ARC-Flash analysis.
- The output over current protection to be sized according to the nominal output current. Clearing in case of short circuit is done through bypass line.

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TITLE: GUTOR PXC
 Input: 380/400/415V 3PH 46-54/55-65Hz
 Output: 50/60/80kVA 380/400/415V 3PH 50/60Hz
 UPS WITH BATTERY OPTIONS
 SITE PLANNING DATA
 PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 2

DWG NO: GUPXC50K80H-SD	REV. 1
DRAWN: BALAMURUGAN	28-AUG-17
ENGINEER: H GOHL/G RIZZA	05-SEP-17
APPROVED: I KENNEDY/W KOERNER	05-SEP-17
ANGLE PROJECTION: N/A	