

Galaxy 3500

10–30 kVA 208/220 V

Technical Specifications

04/2016



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As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in death or serious injury**.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury**.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury**.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream circuit breakers, battery circuit breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

The UPS System must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364–4–41- protection against electric shock, 60364–4–42 - protection against thermal effect, and 60364–4–43 - protection against overcurrent), **or**
- NEC NFPA 70

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Install the UPS system in a temperature controlled area free of conductive contaminants and humidity.
- Install the UPS system on a non-inflammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

The UPS is not designed for and must therefore not be installed in the following unusual operating environments:

- Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

NOTICE

RISK OF OVERHEATING

Respect the space requirements around the UPS system and do not cover the product's ventilation openings when the UPS system is in operation.

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Do not connect the UPS output to regenerative load systems including photovoltaic systems and speed drives.

Failure to follow these instructions can result in equipment damage.

Technical Data

Model List

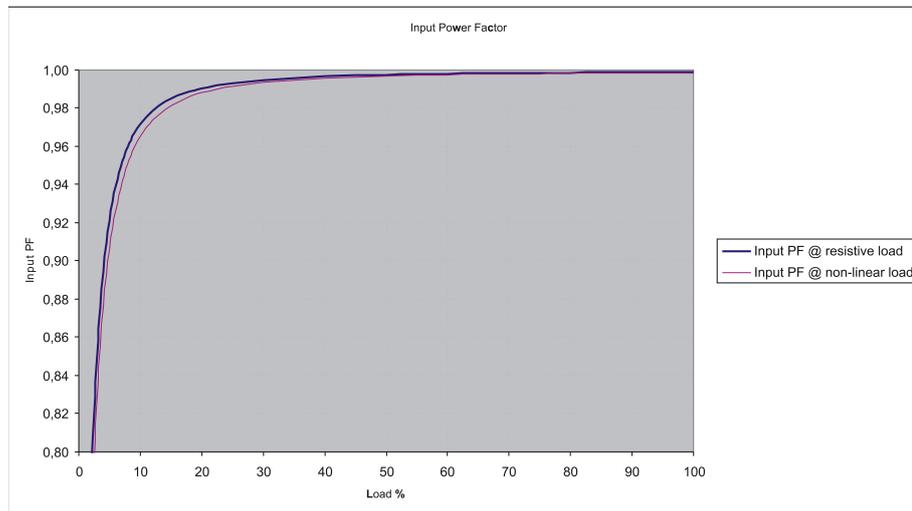
UPS for up to Two Battery Modules

- Galaxy 3500 10 kVA 208 V
- Galaxy 3500 15 kVA 208 V

UPS for up to Four Battery Modules

- Galaxy 3500 10 kVA 208 V
- Galaxy 3500 15 kVA 208 V
- Galaxy 3500 20 kVA 208 V
- Galaxy 3500 30 kVA 208 V

Input Power Factor

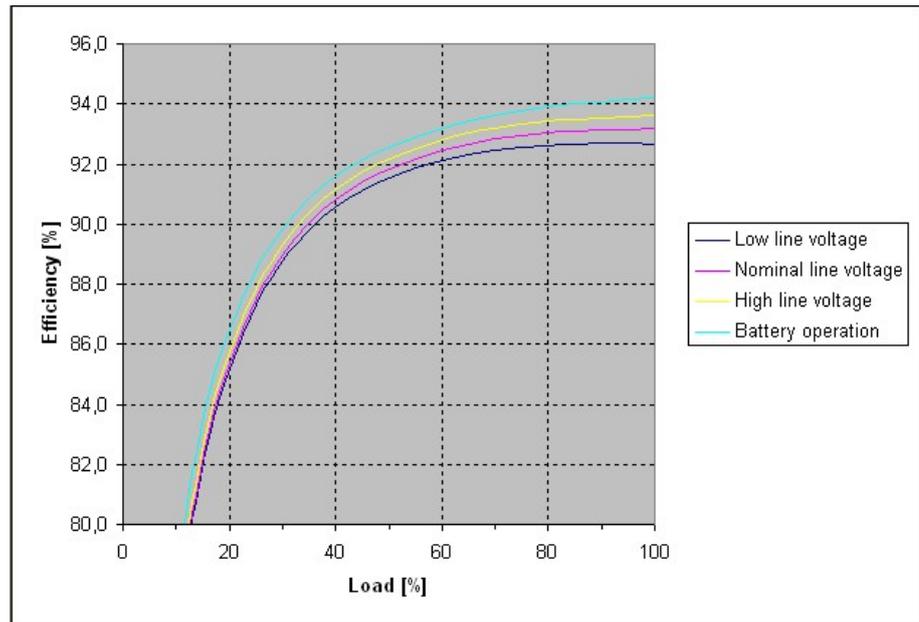


Efficiency

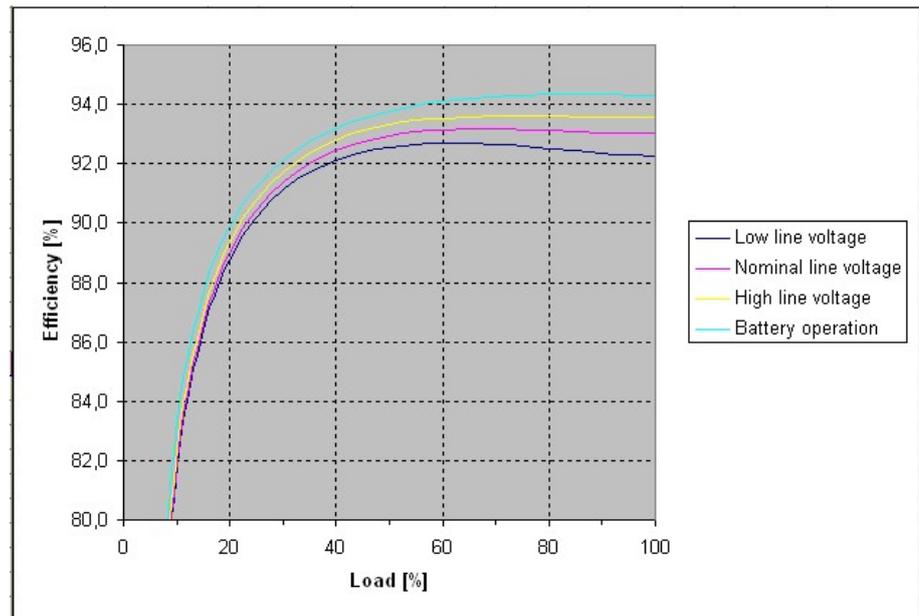
System	25% load	50% load	75% load	100% load
10 kVA 208 V	87.5	91.8	92.9	93.2
15 kVA 208 V	90.4	92.9	93.1	93
20 kVA 208 V	88.6	92.4	93.3	93.4
30 kVA 208 V	91.2	93.3	93.3	93.1

Efficiency Curves

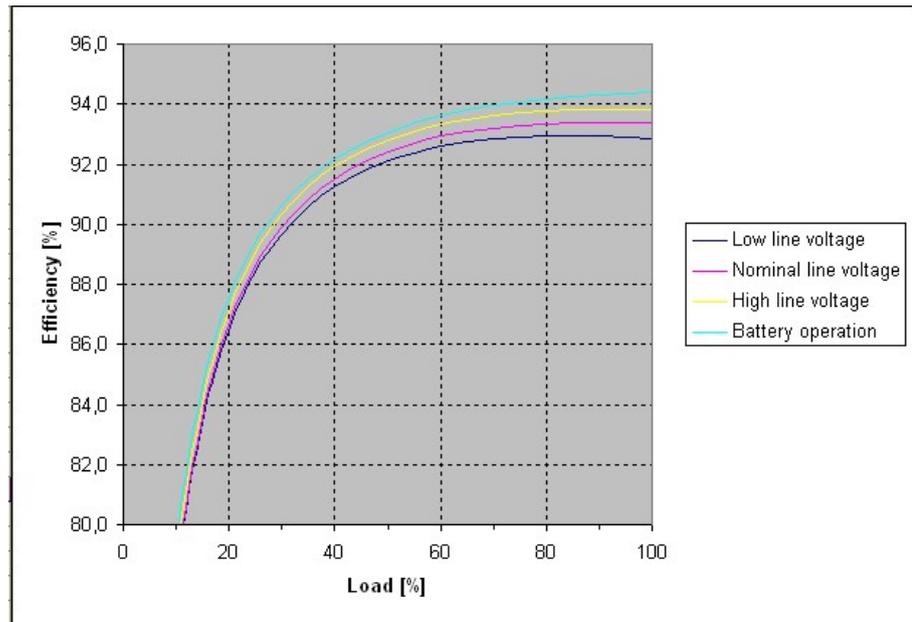
10 kVA 208 V



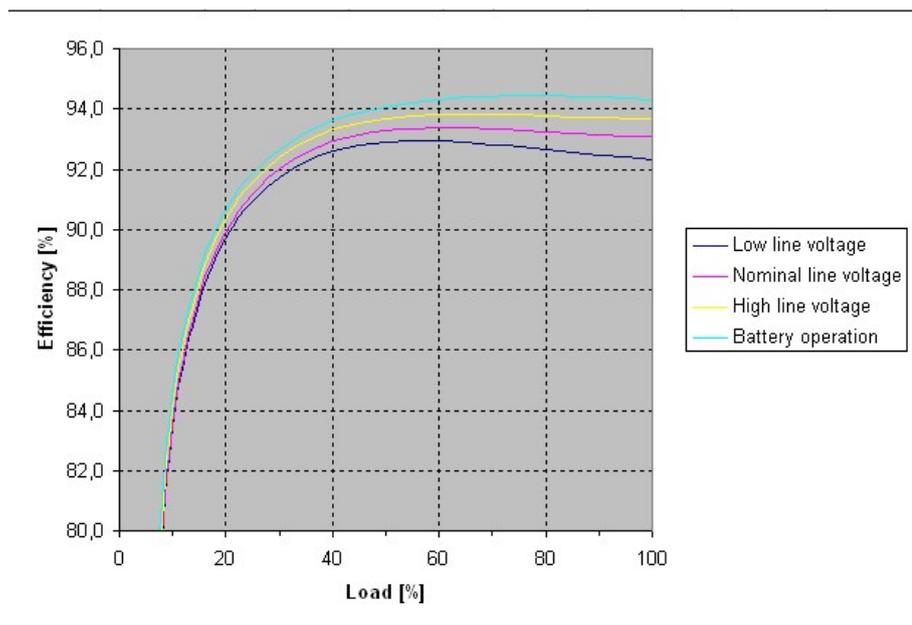
15 kVA 208 V



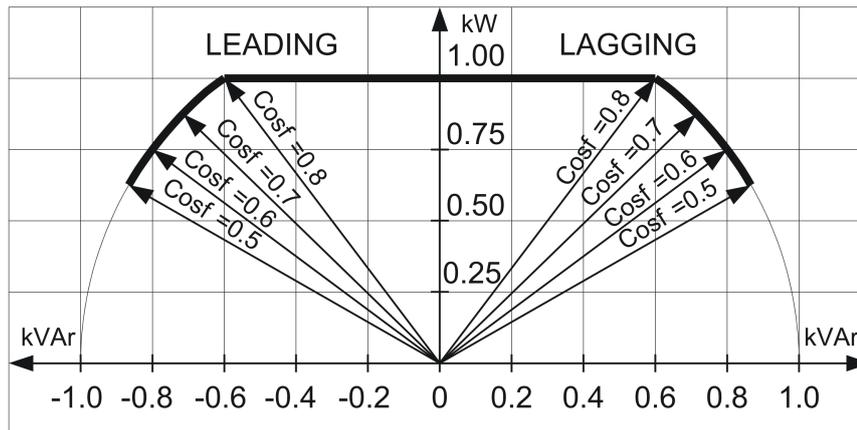
20 kVA 208 V



30 kVA 208 V



Derating Due to Load Power Factor



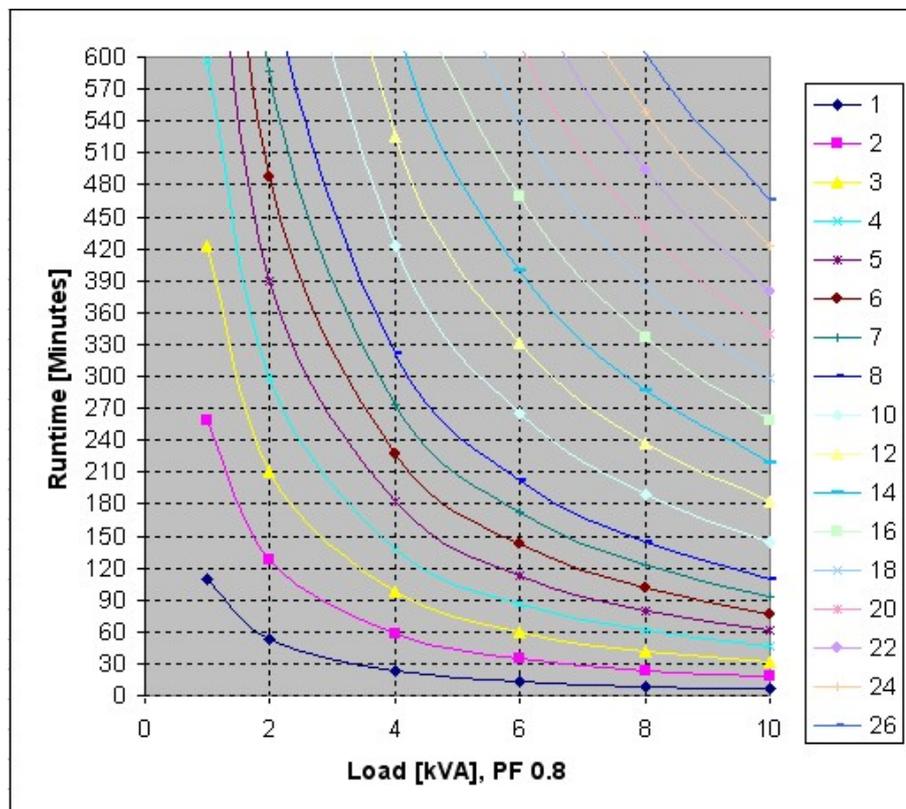
Batteries

Efficiency DC to AC

	10 kVA		15 kVA		20 kVA		30 kVA	
	208 V	220V						
Efficiency at nominal battery voltage (%)	94.3	94.4	94.3	94.4	94.3	94.4	94.3	94.4

Battery Runtime - Schneider Electric Modular Battery Solution

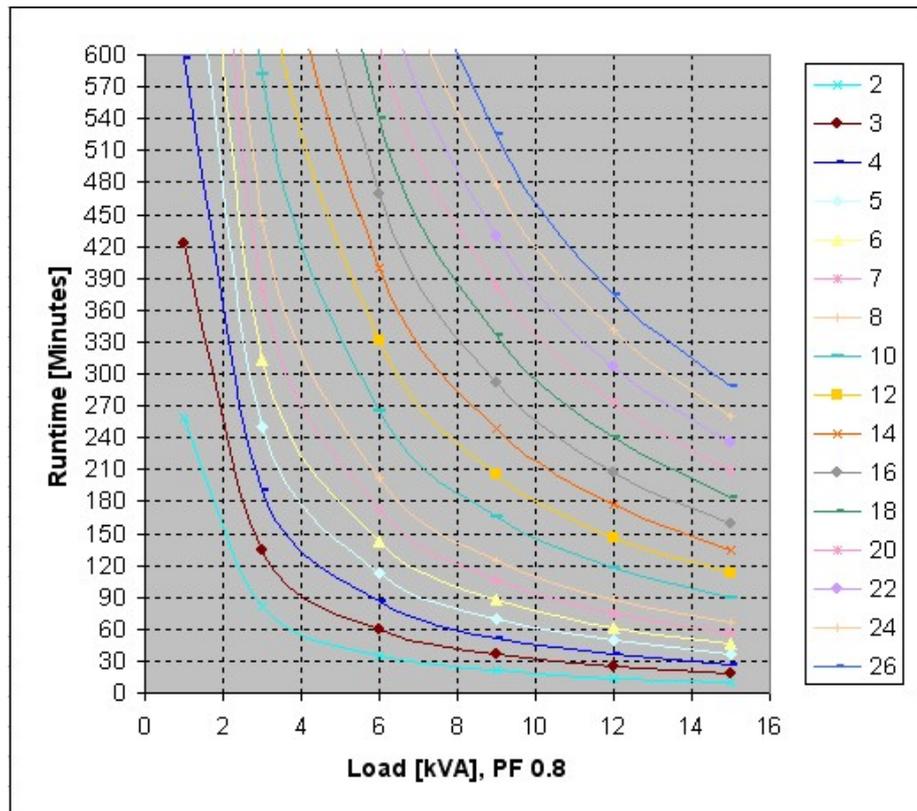
10 kVA 208 V Typical Performances



# of battery shelves ¹	Load kVA					
	1	2	4	6	8	10
1	110	53	23	13	9	6
2	258	128	58	35	24	18
3	422	210	97	60	42	31
4	597	298	138	86	61	46
5	781	390	182	113	80	61
6	973	487	227	142	101	77
7	1172	586	274	172	122	93
8	1376	689	322	202	144	110
9	1586	794	372	233	167	128
10	1800	901	422	265	189	145
11	2019	1011	474	298	213	163
12	2241	1123	526	331	237	182
13	2468	1236	580	365	261	200
14	2697	1352	634	399	286	219
15	2931	1468	689	434	310	239
16	3167	1587	745	469	336	258
17	3406	1707	801	505	361	278
18	3648	1829	858	541	387	298
19	3893	1951	916	577	413	318
20	4140	2075	975	614	440	339
21	4390	2201	1034	652	467	359
22	4642	2327	1093	689	494	380
23	4897	2455	1153	727	521	401
24	5154	2584	1214	765	548	422
25	5413	2714	1275	804	576	444
26	5674	2845	1337	843	604	465

1. Battery shelves indicate the total number of populated battery shelves in the UPS and battery cabinet.

15 kVA 208 V Typical Performances

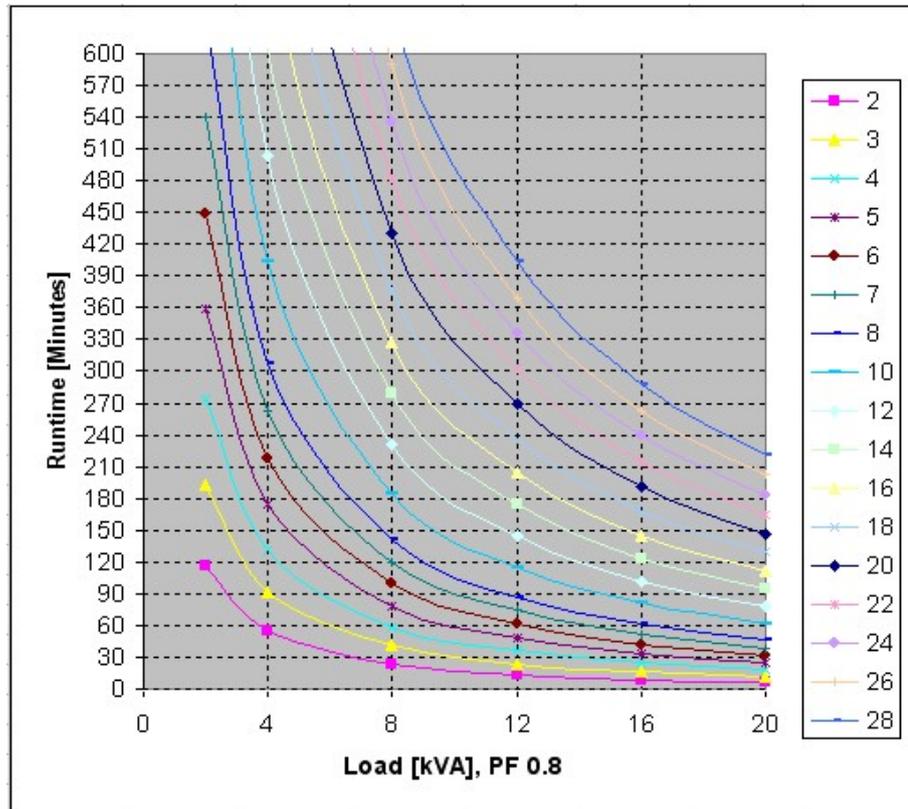


	Load kVA					
# of battery shelves ²	1	3	6	9	12	15
1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	258	81	35	21	14	10
3	422	134	60	36	25	18
4	597	191	86	52	36	27
5	781	251	113	70	49	37
6	973	314	142	88	62	47
7	1172	378	172	106	75	57
8	1376	444	202	125	88	67
9	1586	512	233	145	102	78
10	1800	582	265	165	117	89
11	2019	653	298	185	131	100
12	2241	725	331	206	146	112
13	2468	799	365	227	161	123
14	2697	873	399	249	177	135
15	2931	949	434	270	192	147
16	3167	1026	469	292	208	159
17	3406	1103	505	315	224	171
18	3648	1182	541	337	240	184
19	3893	1261	577	360	256	196
20	4140	1342	614	383	273	209
21	4390	1423	652	407	290	222
22	4642	1505	689	430	306	235

2. Battery shelves indicate the total number of populated battery shelves in the UPS and battery cabinet.

	Load kVA					
# of battery shelves ²	1	3	6	9	12	15
23	4897	1587	727	454	323	248
24	5154	1671	765	478	341	261
25	5413	1755	804	502	358	274
26	5674	1840	843	526	375	288

20 kVA 208 V Typical Performances

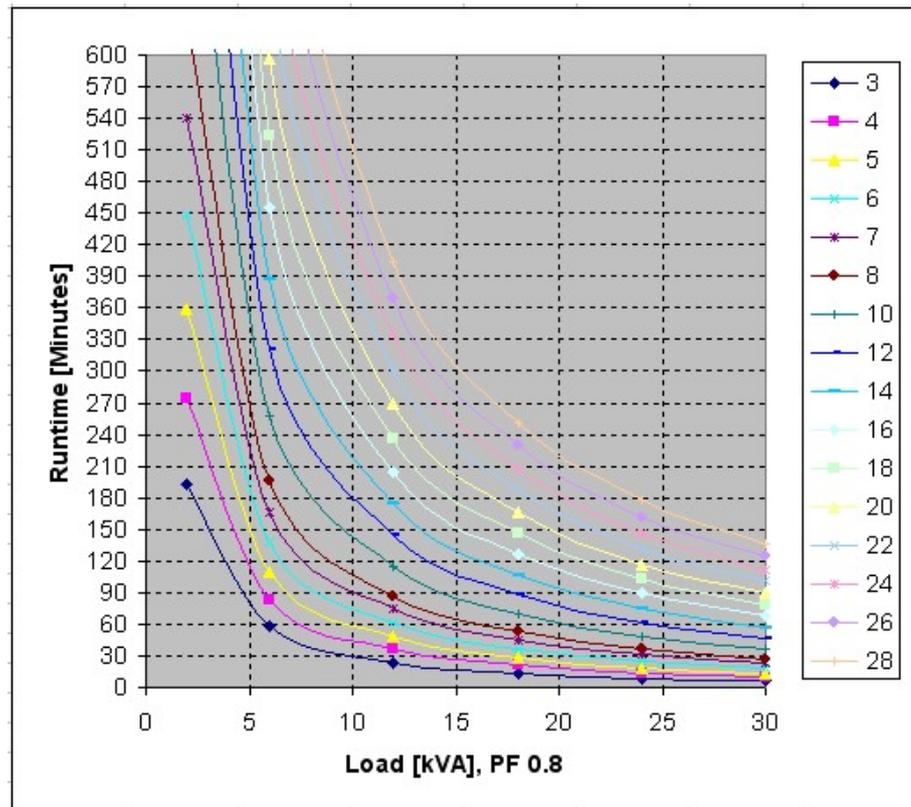


	Load kVA					
# of battery shelves ²	2	4	8	12	16	20
1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	117	55	24	14	9	6
3	193	92	41	24	16	12
4	274	132	59	36	25	18
5	359	174	78	48	33	25
6	448	217	99	61	42	32
7	540	262	119	74	52	39
8	634	308	141	87	61	46
9	731	355	163	101	71	54
10	830	404	185	115	81	62
11	931	453	208	129	91	70
12	1034	503	231	144	102	78
13	1138	554	255	159	113	86
14	1244	606	279	174	123	94

2. Battery shelves indicate the total number of populated battery shelves in the UPS and battery cabinet.

# of battery shelves ³	Load kVA					
	2	4	8	12	16	20
15	1352	659	303	189	134	103
16	1461	712	328	205	145	111
17	1572	766	353	220	157	120
18	1684	821	378	236	168	129
19	1797	876	404	252	180	137
20	1911	932	430	269	191	146
21	2027	988	456	285	203	155
22	2143	1045	482	302	215	165
23	2261	1103	509	318	227	174
24	2379	1161	536	335	239	183
25	2499	1219	563	352	251	193
26	2620	1278	590	369	263	202
27	2741	1338	618	387	276	211
28	2864	1397	645	404	288	221

30 kVA 208 V Typical Performances



# of battery shelves ³	Load kVA					
	2	6	12	18	24	30
1	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	193	58	24	14	9	6
4	274	83	36	21	14	10

3. Battery shelves indicate the total number of populated battery shelves in the UPS and battery cabinet.

# of battery shelves ³	Load kVA					
	2	6	12	18	24	30
5	359	110	48	29	19	14
6	448	138	61	36	25	18
7	540	166	74	45	31	23
8	634	196	87	53	37	27
9	731	226	101	61	43	32
10	830	257	115	70	49	37
11	931	289	129	79	55	42
12	1034	321	144	88	62	47
13	1138	354	159	98	69	52
14	1244	387	174	107	75	57
15	1352	421	189	117	82	62
16	1461	455	205	126	89	68
17	1572	489	220	136	96	73
18	1684	524	236	146	103	78
19	1797	560	252	156	110	84
20	1911	596	269	166	117	89
21	2027	632	285	176	125	95
22	2143	668	302	187	132	101
23	2261	705	318	197	140	106
24	2379	742	335	208	147	112
25	2499	780	352	218	155	118
26	2620	817	369	229	162	124
27	2741	855	387	240	170	130
28	2864	894	404	251	178	136

Battery Runtime - Classic Batteries

NOTE:

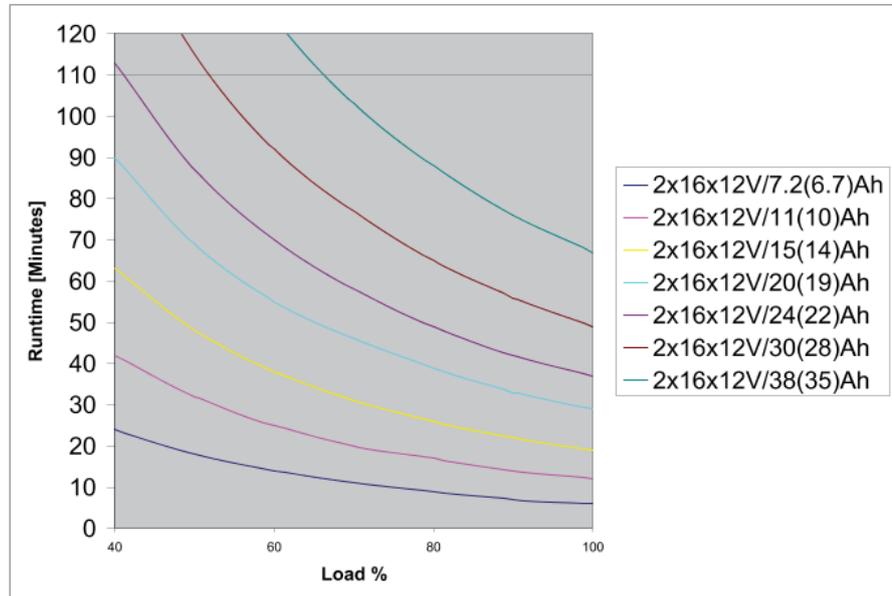
- The below battery runtimes are based on high quality batteries from approved manufacturers
- The runtimes are based on high rate batteries designed for UPS systems
- The runtimes are intended as a guide only, and Schneider Electric does not take the responsibility for these runtimes

10 kVA

Battery Ah		Load %						
20 hr rate	10 hr rate ³	40	50	60	70	80	90	100
7.2	6.7	24	18	14	11	9	7	6
11	10	42	32	25	20	17	14	12
15	14	63	48	38	31	26	22	19
20	19	90	69	55	46	39	33	29
24	22	113	87	70	58	49	42	37

3. Battery shelves indicate the total number of populated battery shelves in the UPS and battery cabinet.
3. Approximately equivalent to 10 hr rate Ah

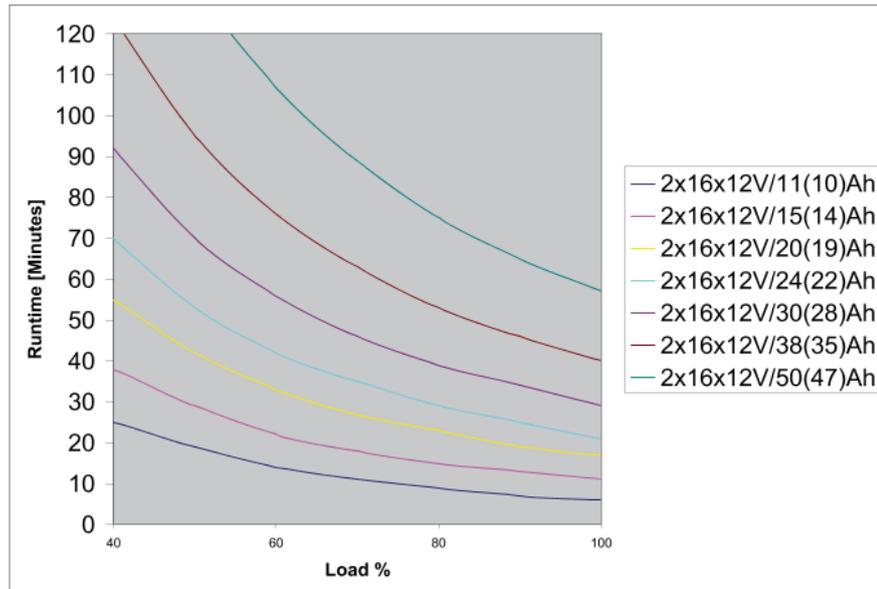
Battery Ah		Load %						
20 hr rate	10 hr rate ³	40	50	60	70	80	90	100
30	28	149	115	92	77	65	56	49
38	35	199	154	124	103	88	76	67



15 kVA

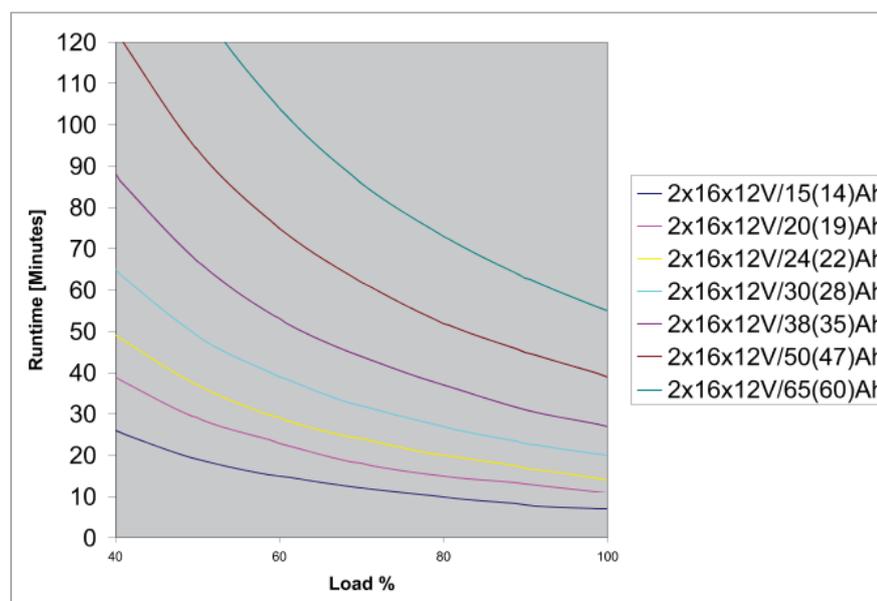
Battery Ah		Load %						
20 hr rate	10 hr rate ³	40	50	60	70	80	90	100
11	10	25	19	14	11	9	7	6
15	14	38	29	22	18	15	13	11
20	19	55	42	33	27	23	19	17
24	22	70	53	42	35	29	25	21
30	28	92	70	56	46	39	34	29
38	35	124	95	76	63	53	46	40
50	47	174	133	107	89	75	65	57

3. Approximately equivalent to 10 hr rate Ah



20 kVA

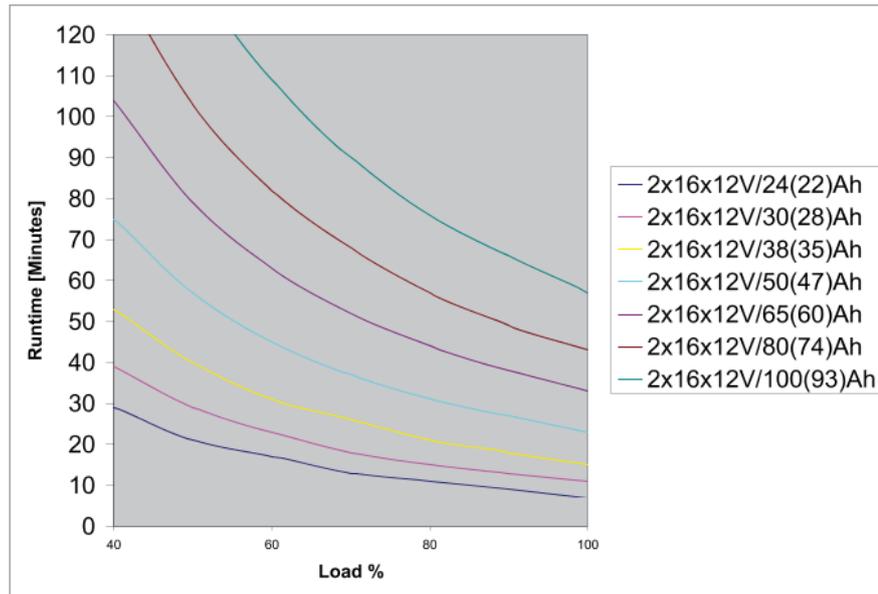
Battery Ah		Load %						
20 hr rate	10 hr rate ⁴	40	50	60	70	80	90	100
15	14	26	19	15	12	10	8	7
20	19	39	29	23	18	15	13	11
24	22	49	37	29	24	20	17	14
30	28	65	49	39	32	27	23	20
38	35	88	67	53	44	37	31	27
50	47	123	94	75	62	52	45	39
65	60	170	130	104	86	73	63	55



4. Approximately equivalent to 10 hr rate Ah

30 kVA

Battery Ah		Load %						
20 hr rate	10 hr rate ⁵	40	50	60	70	80	90	100
24	22	29	21	17	13	11	9	7
30	28	39	29	23	18	15	13	11
38	35	53	40	31	26	21	18	15
50	47	75	57	45	37	31	27	23
65	60	104	79	63	52	44	38	33
80	74	135	103	82	68	57	49	43
100	93	178	136	109	90	76	66	57



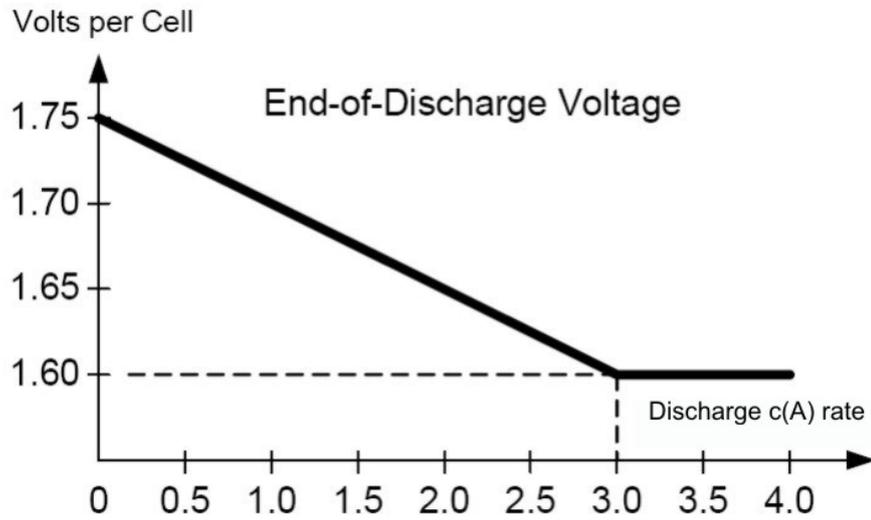
Battery Discharge Current

	10 kVA	15 kVA	20 kVA	30 kVA
I bat at Vbat nominal, 100% load	22	33	44	66
I bat at Vbat min, 100% load	28	41	55	83
I bat at Vbat min, 150% load	40	62	83	125

End of Discharge Voltage at 100% Load

NOTE: The voltage is 1.6 to 1.75 per cell depending on load.

5. Approximately equivalent to 10 hr rate Ah



NOTE: C equals $I_{\text{discharge}}$ divided by the battery Ah capacity.

Battery Gassing Rates

10–15 kVA

NOTE: Schneider Electric recommends that room ventilation is based on maximum values.

Battery position	# of bat shelves	Gassing rate cc/hr (ml/hr)	
		Typical	Max
UPS	1	24	48
UPS	2	48	96
Modular battery cabinet 1	3	72	144
Modular battery cabinet 1	4	96	192
Modular battery cabinet 1	5	120	240
Modular battery cabinet 1	6	144	288
Modular battery cabinet 1	7	168	336
Modular battery cabinet 1	8	192	384
Modular battery cabinet 2	9	216	432
Modular battery cabinet 2	10	240	480
Modular battery cabinet 2	11	264	528
Modular battery cabinet 2	12	288	576
Modular battery cabinet 2	13	312	624
Modular battery cabinet 2	14	336	672
Modular battery cabinet 3	15	360	720
Modular battery cabinet 3	16	384	768
Modular battery cabinet 3	17	408	816
Modular battery cabinet 3	18	432	864
Modular battery cabinet 3	19	456	912
Modular battery cabinet 3	20	480	960
Modular battery cabinet 4	21	504	1008
Modular battery cabinet 4	22	528	1056
Modular battery cabinet 4	23	552	1104

Battery position	# of bat shelves	Gassing rate cc/hr (ml/hr)	
		Typical	Max
Modular battery cabinet 4	24	576	1152
Modular battery cabinet 4	25	600	1200
Modular battery cabinet 4	26	624	1248

20–30 kVA

NOTE: Schneider Electric recommends that room ventilation is based on maximum values.

Battery position	# of bat shelves	Gassing rate cc/hr (ml/hr)	
		Typical	Max
UPS	1	24	48
UPS	2	48	96
UPS	3	72	144
UPS	4	96	192
Modular battery cabinet 1	5	120	240
Modular battery cabinet 1	6	144	288
Modular battery cabinet 1	7	168	336
Modular battery cabinet 1	8	192	384
Modular battery cabinet 1	9	216	432
Modular battery cabinet 1	10	240	480
Modular battery cabinet 2	11	264	528
Modular battery cabinet 2	12	288	576
Modular battery cabinet 2	13	312	624
Modular battery cabinet 2	14	336	672
Modular battery cabinet 2	15	360	720
Modular battery cabinet 2	16	384	768
Modular battery cabinet 3	17	408	816
Modular battery cabinet 3	18	432	864
Modular battery cabinet 3	19	456	912
Modular battery cabinet 3	20	480	960
Modular battery cabinet 3	21	504	1008
Modular battery cabinet 3	22	528	1056
Modular battery cabinet 4	23	552	1104
Modular battery cabinet 4	24	576	1152
Modular battery cabinet 4	25	600	1200
Modular battery cabinet 4	26	624	1248
Modular battery cabinet 4	27	648	1296
Modular battery cabinet 4	28	672	1344
Modular battery cabinet 4	28	672	1344

Electrolyte Values for SYBTU1–PLP

	Battery module	String of batteries (Four battery modules)
Electrolyte volume L (gal)	2.78 (0.72)	11.14 (2.87)
Electrolyte weight kg (lbs)	3.72 (8.18)	14.86 (32.73)
Sulfuric acid volume L (gal)	0.89 (0.23)	3.54 (0.91)
Sulfuric acid weight kg (lbs)	1.62 (3.57)	6.48 (14.27)

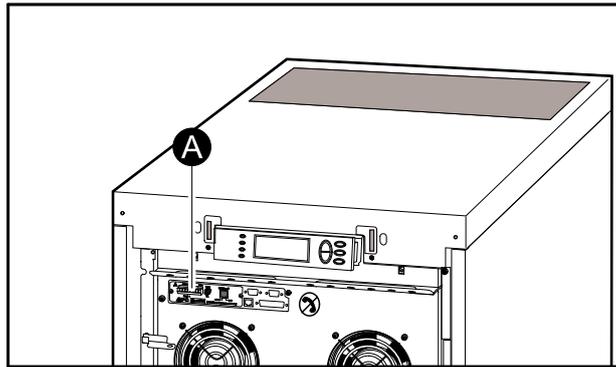
Battery Material Safety Data Sheet

NOTE: For Material Safety Data Sheet (MSDS), go to the Knowledge Base http://schneider-electric.com/sites/corporate/en/support/faq/faq_main.page and type “MSDS” to get the latest MSDS information.

Communication and Management

Network Management Card

The system is equipped with one network management card for remote monitoring and control of an individual UPS by connecting it directly to the network.



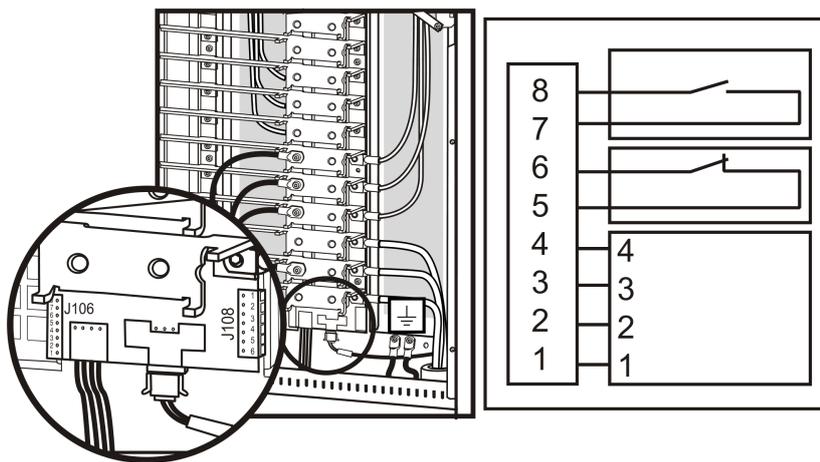
A. Network Management Card

Input and Output Contacts

Pins 7 and 8 are for external charge control. When 7 and 8 are closed, the UPS charges batteries with a pre-defined percentage (0-25-50-75-100%) of the maximum charging power. To be used in generator applications, or if special codes require control of charging.

Pins 5 and 6 are for external maintenance bypass Q3 (auxiliary switch N/C type). When Q3 is closed, signals are fed back to the UPS controller.

Pins 1 to 4 are for battery measurement (only applicable to Schneider Electric modular battery cabinets).



Pin	Description
8	External charging control return
7	External control of charging
6	Q3 active return
5	Q3 active
4	Battery measurement supply ⁶
3	Battery unit quantity ⁶
2	Maximum battery temperature ⁶
1	Battery measurement return ⁶

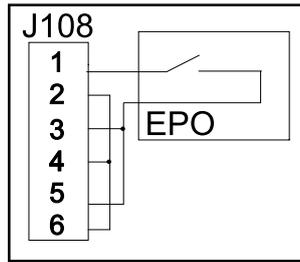
Connect EPO in Single Systems

- Use only 1-1½ mm² copper wire for the connection of the EPO (Emergency Power Off) and other optional equipment.
- The UPS must be connected to either a dry contact or a 24 VDC EPO switch.

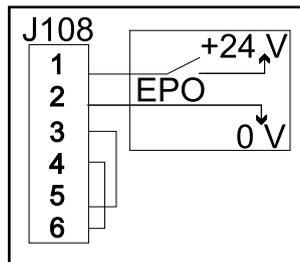
The external EPO +24 VDC, 1500 mA circuit can be supplied through other vendors.

6. To be used with a Schneider Electric modular battery cabinet.

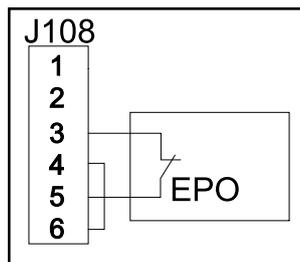
1. Connect the EPO cable using one of the following four wiring configurations:
 - **Dry Contacts Normally Open:** EPO is activated when pin 1 is connected to pins 3 and 5. Connections: 2-4-6, 3-5, and 1 .



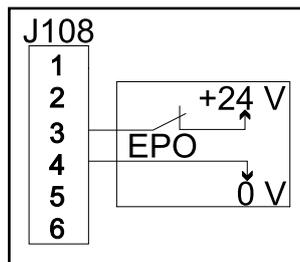
- **+24 V Normally Open:** EPO is activated when an isolated SELV 24 VDC voltage is supplied on pin 1 with reference to pin 2. Connections: 3-5 and 4-6.



- **Dry Contacts Normally Closed:** EPO is activated when a connection from pin 3 to 5 is opened. Connections: 4-6.



- **+24 V Normally Closed:** EPO is activated when a SELV 24 VDC voltage is removed from pin 3 with reference to pin 4.



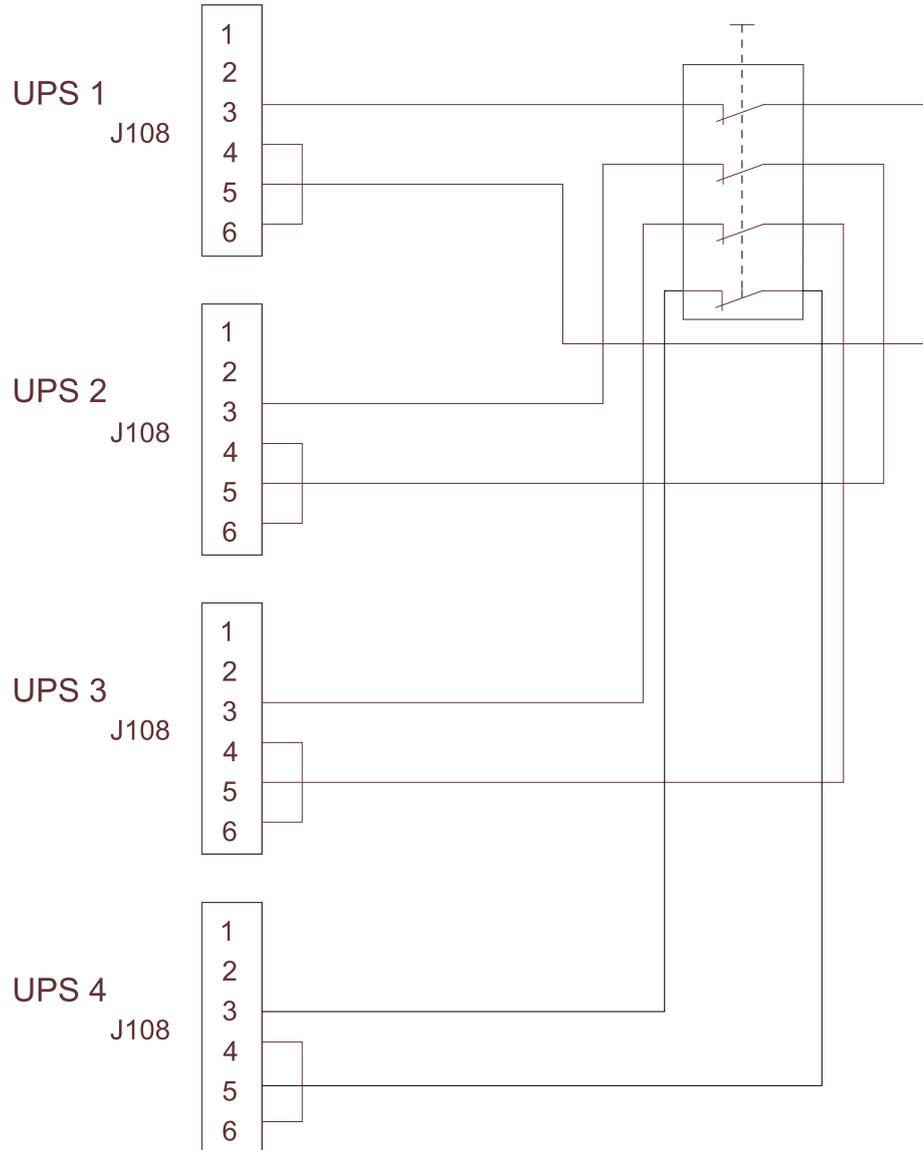
Connect EPO in Parallel Systems

In parallel systems each UPS unit must have a separate dry contact (voltage free) external to the UPS connected to J108.

▲ CAUTION
RISK OF ERRATIC UPS BEHAVIOR
For parallel and separate systems with common EPO, each UPS unit must be connected to a separate dry contact external to the UPS, because parallel EPO wiring between more UPS units can result in erratic UPS behavior.
Failure to follow these instructions can result in injury or equipment damage.

Schneider Electric recommends a **Dry Contacts Normally Closed EPO** installation of the UPS units in parallel – shown in the illustration below for four UPSs in parallel. Each UPS is connected to a separate dry contactor.

Dry Contacts Normally Closed EPO installation



Compliance

Directives for CE marking	89/336/EDC73/237/EEC
Safety	EN/IEC62040-1-1UL1778
EMC	EN50091-2/IEC62040-2FCC15A
Performance	EN/IEC62040-3
Electromagnetic compatibility (EMC)	EN/IEC 61000-4-2 level 3, performance criteria AEN/IEC 61000-4-3 level 2, performance criteria AEN/IEC 61000-4-4 level 2, performance criteria AEN/IEC 61000-4-5 level 3, performance criteria A
Seismic	OSHDP, IBC2010 and CBC2010 to Sds=1.42g

Facility Planning

AC Input Specifications

	10 kVA		15 kVA		20 kVA		30 kVA	
	208 V	220 V	208 V	220 V	208 V	220 V	208 V	220 V
Connection type	4-wire (3PH + N + G)							
Voltage range (V)	160– $V_{nom} + 15\%$ at 100% load 100– $V_{nom} + 15\%$ at < 50% load							
Input frequency (Hz)	40-70							
THDI	< 5% at full load							
Nominal input current (A)	24.3	23.0	36.6	34.6	48.6	45.8	73.2	69.0
Maximum input current (A)	26.7	25.2	40.2	38.0	53.0	50.1	80.1	75.8
Input current limitation (A)	32.8	32.8	49.5	49.5	65.2	65.2	98.8	98.8
Input power factor correction	> 0.98 at load > 50%							
Maximum short circuit withstand (kA)	30							

AC Bypass Specifications

	10 kVA		15 kVA		20 kVA		30 kVA	
	208 V	220 V	208 V	220 V	208 V	220 V	208 V	220 V
Connection type	4-wire (3PH + N + G)							
Voltage range (V)	± 10%							
Input frequency (Hz)	50 ± 10 or 60 ± 10							
Nominal input current (A)	27.8	26.2	41.6	39.4	55.5	52.5	83.3	78.7

AC Output Specifications

	10 kVA		15 kVA		20 kVA		30 kVA	
	208 V	220 V	208 V	220 V	208 V	220 V	208 V	220 V
Connection type	4-wire (3PH + N + G)							
Overload capacity	150% for 1 minute (normal operation) 125% for 10 minutes (normal operation) 150% for 1 minute (battery operation) 125% for 10 minutes (battery operation) 110% continuous (bypass operation) 800% for 500 ms (bypass operation)							
Nominal output current (A)	27.8	26.2	41.6	39.4	55.5	52.5	83.3	78.7
Output frequency (sync to mains)	50 Hz ±0.1 Hz, ±3 Hz, ±10 Hz 60 Hz ±0.1 Hz, ±3 Hz, ±10 Hz							
Slew rate (Hz/Sec)	0.25-1							
THDU	< 1.5% linear < 3.5% non-linear							

	10 kVA		15 kVA		20 kVA		30 kVA	
	208 V	220 V	208 V	220 V	208 V	220 V	208 V	220 V
Load power factor	0.5 leading to 0.5 lagging							
Dynamic load response	± 5%							
Output voltage regulation	± 1%							

Battery Specifications

Type	VRLA
Nominal voltage (VDC)	+/- 192
Float voltage (VDC)	+/- 219
End of discharge voltage (VDC)	+/- 154
Battery current (at full load)	66.5 A at +/-192 V
Maximal current (at end of discharge)	83.2 A at + 154 V
Maximal charging power	10 kVA: 1600 W 15 kVA: 2400 W 20 kVA: 3200 W 30 kVA: 3200 W
Typical recharge time	5 hours
End voltage	1.6-1.75 V/cell (automatic, depending on load)

Recommended Cable Sizes

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

At 100% switch mode load, the neutral must be rated for 200% phase current.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical code.

Failure to follow these instructions will result in death or serious injury.

NOTE: The recommended cable sizes are based on an environment with an ambient temperature of 30° C (86° F). Use stranded copper cables.

	10 kVA	15 kVA	20 kVA	30 kVA
Utility/mains input	8 AWG	6 AWG	4 AWG	1 AWG
Static bypass input	8 AWG	6 AWG	4 AWG	1 AWG
DC input	1 AWG	1 AWG	1 AWG	1 AWG
Output	8 AWG	6 AWG	4 AWG	1 AWG

Connection Terminals

Cable size (AWG)	Cable lug type	Crimping tool	Die	Terminal bolt diameter
12	YA12CL2TC38	MD7-34R	W12CVT	6 mm (0.2 in)
8	YA8CL2TC38	MD7-34R	W8CVT	6 mm (0.2 in)
6	YA6CL2TC38	MD7-34R	W6CVT	6 mm (0.2 in)
4	YA4CL2TC38	MD7-34R	W4CVT	6 mm (0.2 in)
1	YA1CL2TC38	MD7-34R	W1CVT	6 mm (0.2 in)

Torque Specifications

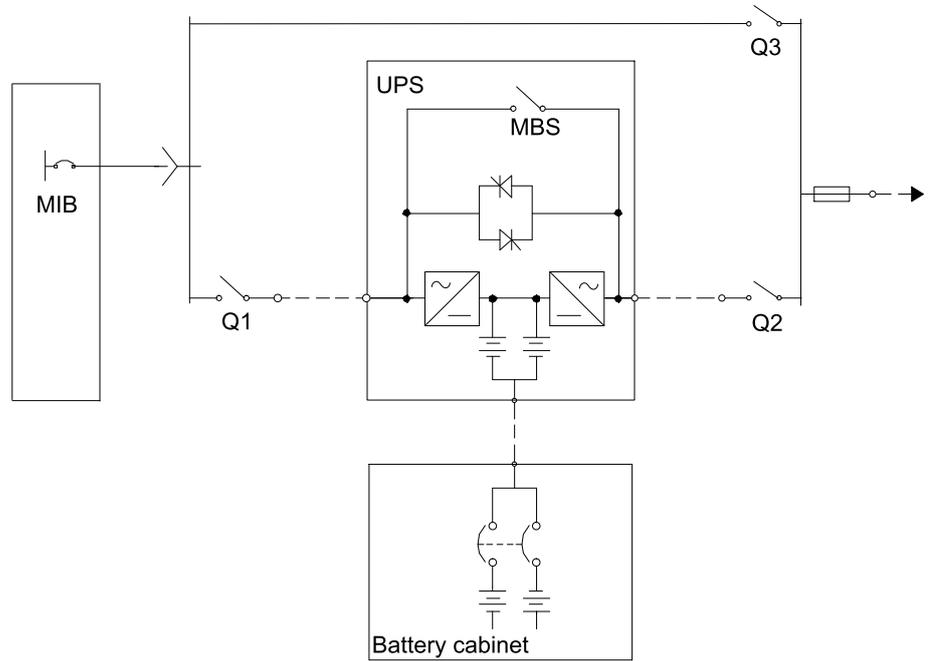
The power wiring should be torqued to 7 Nm (45 lbf-in).

Fuses and Breakers

NOTE: For installations with a Schneider Electric maintenance bypass panel, refer to the installation manual provided with the maintenance bypass panel for wiring diagrams.

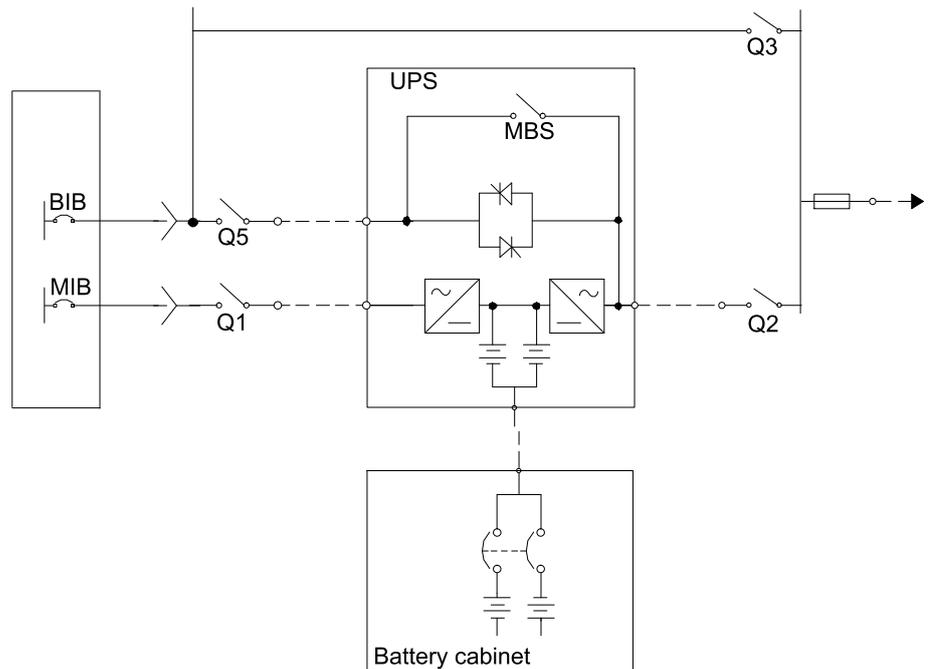
Single Utility/Mains System

- Q1: Utility/mains input
- Q2: UPS output
- Q3: Manual bypass
- MBS: Mechanical bypass switch



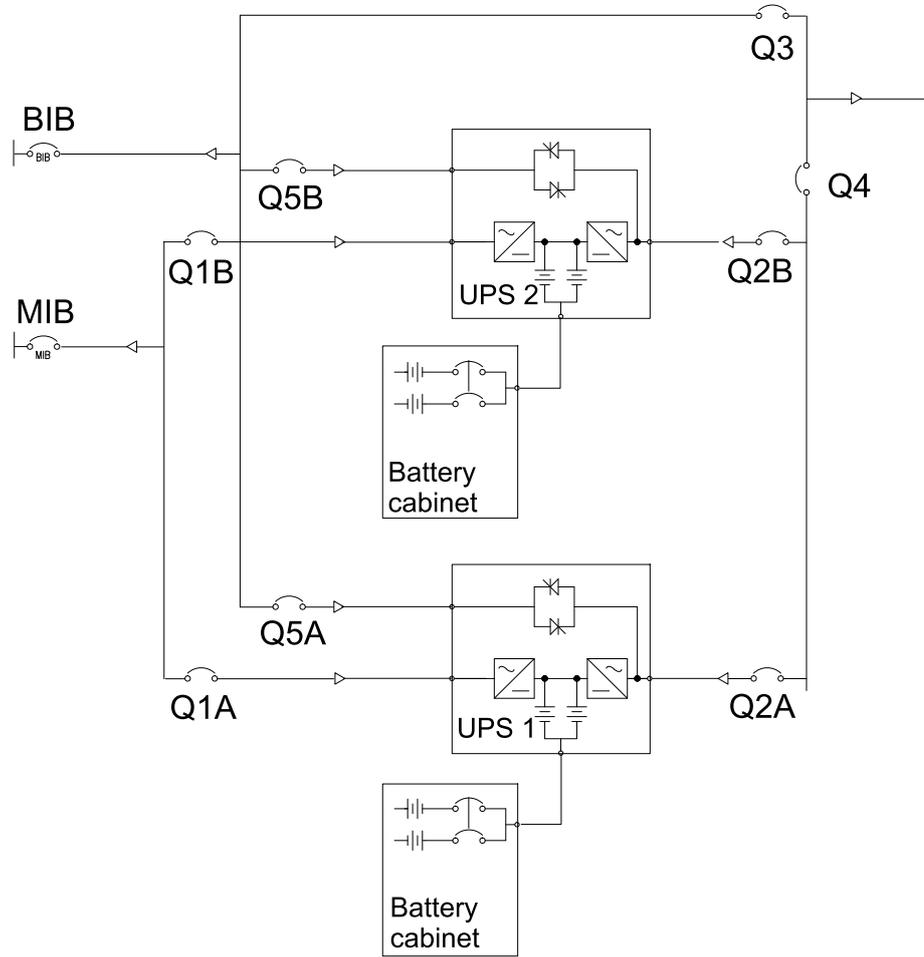
Dual Utility/Mains System

- Q1: Utility/mains input
- Q2: UPS output
- Q3: Manual bypass
- Q5: Static bypass input
- MBS: Mechanical bypass switch



Parallel System

- Q1: Utility/mains input
- Q2: UPS output
- Q3: Manual bypass
- Q4: System output
- Q5: Static bypass input



Fuse and Breaker Sizes in Single Systems

	10 kVA	15 kVA	20 kVA	30 kVA
Input Q1 (A)	35	60	80	110
Bypass Q5 (A)	35	60	80	110
Output Q2 (A)	35	60	80	110
Manual bypass Q3 (A)	35	60	80	110

Fuse and Breaker Sizes in Parallel Systems

Q3 and Q4 in Parallel Capacity Systems

Units in parallel	10 kVA	15 kVA	20 kVA	30 kVA
2 (A)	70	110	150	225
3 (A)	110	175	225	350
4 (A)	150	225	300	450

Q3 and Q4 in Redundant Parallel Systems (n+1)

Units in parallel	10 kVA	15 kVA	20 kVA	30 kVA
2 (A)	35	60	80	110
3 (A)	70	110	150	225
4 (A)	110	175	225	350

Minimum Breaker Settings 208 V

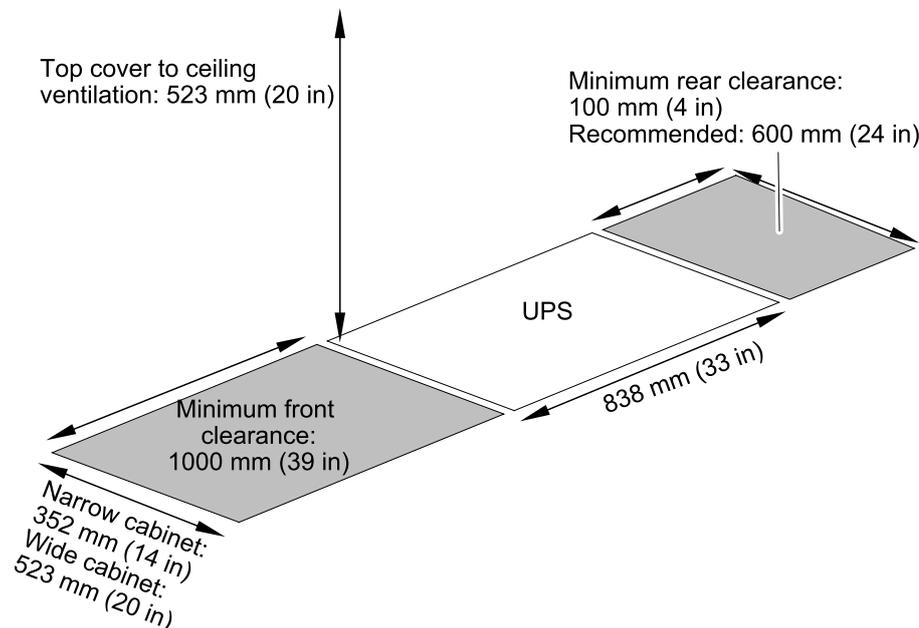
		800% overload bypass operation	150% overload normal/battery operation	125% overload normal/battery operation	Continuously
	Duration	500 ms	60 s	10 min	
10 kVA	Input (A)	.7	-	-	34
	Bypass (A)	223	-	-	31
	Output (A)	223	42	35	31
15 kVA	Input (A)	.7	-	-	51
	Bypass (A)	333	-	-	46
	Output (A)	333	63 A	52	46
20 kVA	Input (A)	.7	-	-	68
	Bypass (A)	444	-	-	62
	Output (A)	444	84	70	62
30 kVA	Input (A)	.7	-	-	99
	Bypass (A)	667	-	-	92
	Output (A)	667	125	105	92

7. For single mains systems, use the higher value of input and static bypass

Physical

Clearance

NOTE: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.



Weights and Dimensions 3:3 UPS 208 V

UPS Cabinet 3:3	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
10kVA 208V with 1 Battery Module Expandable to 2 (G35T10KF1B2S)	305.05 (671.10)	1491 (58.70)	356 (14)	838 (33)
10kVA 208V with 1 Battery Module Expandable to 4 (G35T10KF1B4S)	323.18 (711)	1491 (58.70)	523 (20.60)	838 (33)
10kVA 208V with 2 Battery Modules (G35T10KF2B2S)	396.82 (873)	1491 (58.70)	356 (14)	838 (33)
10kVA 208V with 2 Battery Modules Expandable to 4 (G35T10KF2B4S)	415 (913)	1491 (58.70)	523 (20.60)	838 (33)
10kVA 208V with 3 Battery Modules Expandable to 4 (G35T10KF3B4S)	506.82 (1115)	1491 (58.70)	523 (20.60)	838 (33)
10kVA 208V with 4 Battery Modules (G35T10KF4B4S)	600 (1318)	1491 (58.70)	523 (20.60)	838 (33)
15kVA 208V with 2 Battery Modules (G35T15KF2B2S)	396.82 (873)	1491 (58.70)	356 (14)	838 (33)
15kVA 208V with 2 Battery Modules Expandable to 4 (G35T15KF2B4S)	415 (913)	1491 (58.70)	523 (20.60)	838 (33)
15kVA 208V with 3 Battery Modules Expandable to 4 (G35T15KF3B4S)	506.82 (1115)	1491 (58.70)	523 (20.60)	838 (33)
15kVA 208V with 4 Battery Modules (G35T15KF4B4S)	600 (1318)	1491 (58.70)	523 (20.60)	838 (33)
20kVA 208V with 2 Battery Modules Expandable to 4 (G35T20KF2B4S)	445 (979)	1491 (58.70)	523 (20.60)	838 (33)
20kVA 208V with 3 Battery Modules Expandable to 4 (G35T20KF3B4S)	536.82 (1181)	1491 (58.70)	523 (20.60)	838 (33)
20kVA 208V with 4 Battery Modules (G35T20KF4B4S)	629.09 (1384)	1491 (58.70)	523 (20.60)	838 (33)

UPS Cabinet 3:3	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
30kVA 208V with 3 Battery Modules Expandable to 4 (G35T30KF3B4S)	536.82 (1181)	1491 (58.70)	523 (20.60)	838 (33)
30kVA 208V with 4 Battery Modules (G35T30KF4B4S)	629.09 (1384)	1491 (58.70)	523 (20.60)	838 (33)

Shipping Weights and Dimensions – UPS 208 V

UPS Cabinet 3:3	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
10kVA 208V with 1 Battery Module Expandable to 2 (G35T10KF1B2S)	335.92 (739)	1643 (64.7)	650 (25.6)	1062 (41.8)
10kVA 208V with 1 Battery Module Expandable to 4 (G35T10KF1B4S)	354.1 (779)	1643 (64.7)	650 (25.6)	1062 (41.8)
10kVA 208V with 2 Battery Modules (G35T10KF2B2S)	427.74 (941)	1643 (64.7)	650 (25.6)	1062 (41.8)
10kVA 208V with 2 Battery Modules Expandable to 4 (G35T10KF2B4S)	445.92 (981)	1643 (64.7)	650 (25.6)	1062 (41.8)
10kVA 208V with 3 Battery Modules Expandable to 4 (G35T10KF3B4S)	537.73 (1183)	1643 (64.7)	650 (25.6)	1062 (41.8)
10kVA 208V with 4 Battery Modules (G35T10KF4B4S)	630 (1386)	1643 (64.7)	650 (25.6)	1062 (41.8)
15kVA 208V with 2 Battery Modules (G35T15KF2B2S)	428.18 (942)	1643 (64.7)	650 (25.6)	1062 (41.8)
15kVA 208V with 2 Battery Modules Expandable to 4 (G35T15KF2B4S)	445.91 (981)	1643 (64.7)	650 (25.6)	1062 (41.8)
15kVA 208V with 3 Battery Modules Expandable to 4 (G35T15KF3B4S)	537.73 (1183)	1643 (64.7)	650 (25.6)	1062 (41.8)
15kVA 208V with 4 Battery Modules (G35T15KF4B4S)	630 (1386)	1643 (64.7)	650 (25.6)	1062 (41.8)
20kVA 208V with 2 Battery Modules Expandable to 4 (G35T20KF2B4S)	475.91 (1047)	1643 (64.7)	650 (25.6)	1062 (41.8)
20kVA 208V with 3 Battery Modules Expandable to 4 (G35T20KF3B4S)	567.73 (1249)	1643 (64.7)	650 (25.6)	1062 (41.8)
20kVA 208V with 4 Battery Modules (G35T20KF4B4S)	660 (1452)	1643 (64.7)	650 (25.6)	1062 (41.8)
30kVA 208V with 3 Battery Modules Expandable to 4 (G35T30KF3B4S)	568.18 (1250)	1643 (64.7)	650 (25.6)	1062 (41.8)
30kVA 208V with 4 Battery Modules (G35T30KF4B4S)	660 (1452)	1643 (64.7)	650 (25.6)	1062 (41.8)

Environmental

Operating Temperature	0 - 40 °C (32-104 °F)
Storage Temperature with batteries	-15 - 40 °C (-5-113 °F) Batteries can only be stored for a longer period if they are fully charged. Fully charged batteries can be stored for up to 12 months at temperatures up to 25 °C and up to 6 months at temperatures from 25 °C to 45 °C without being recharged.
Storage Temperature without batteries	-30 - 70 °C (-22-158 °F)
Operating Relative Humidity	0 - 95%, non-condensing
Storage Relative Humidity	0 - 95%, non-condensing
Operating Elevation	0-1000 m: 100% load 1000–1500 m: 95% load 1500–2000 m: 91% load 2000–2500 m: 86% load 2500–3000 m: 82% load
Storage Elevation	0-15000 meters (0-50000 ft)
Audible noise at 70% load – 1 meter from surface of unit	10–15 kVA: 42.3 dBA 20–30 kVA: 46.2 dBA
Audible noise at 100% load – 1 meter from surface of unit	10-20 kVA: 51.3 dBA 30 kVA: 55.0 dBA
Protection Class	Up to IP51
Color	Dark grey

Heat Dissipation

	10 kVA		15 kVA		20 kVA		30 kVA	
	Batteries fully charged	Batteries charging						
Heat dissipation kw (BTU/hr)	0.57 (1938)	0.65 (2211)	0.88 (2989)	0.99 (3398)	1.24 (4238)	1.42 (4852)	1.73 (5896)	1.97 (6715)

Default Settings

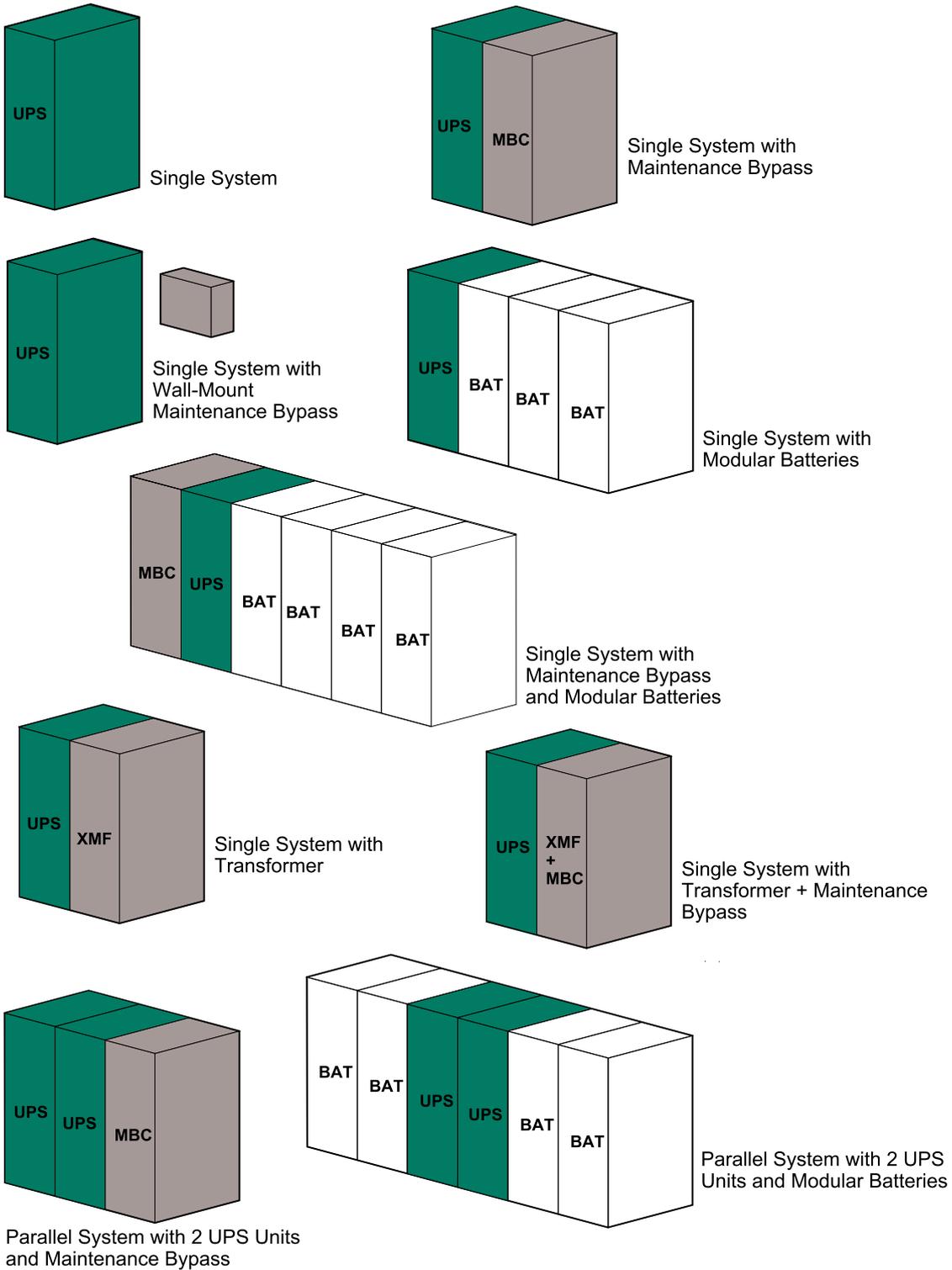
System settings (only updated when in load disconnect)	Default setting
Nominal output voltage (ph-ph)	208 V
Frequency	60 Hz
Frequency self-detect mode	Auto
Frequency range	±10 Hz for 208 V
3-wire mode enabled	Off
Frequency slew rate	1 Hz/s
Generator charge percentage	100%
Cyclic charge mode enabled	Off
Auto start	On
Parallel UPS number	1
Number of parallel UPSs	1
MBP present	No
Shutdown mode (can only be set from service port)	Never
Shutdown setting	
Low battery duration	2 minutes
Shutdown delay	20 seconds
Turn on delay	0 seconds
Return of battery capacity	0%
Alarm settings	
Load alarm threshold	System power rating
Runtime alarm threshold	0 (disabled)
Parallel redundancy alarm threshold	n+0 (disabled)
Other settings	
Battery self test	Off
External battery capacity	0 Ah
Display settings	
Display language	English
Display contrast	0
Display beeper state	PowerFail+30
Display beeper volume	Low
Display key click	Off

Drawings

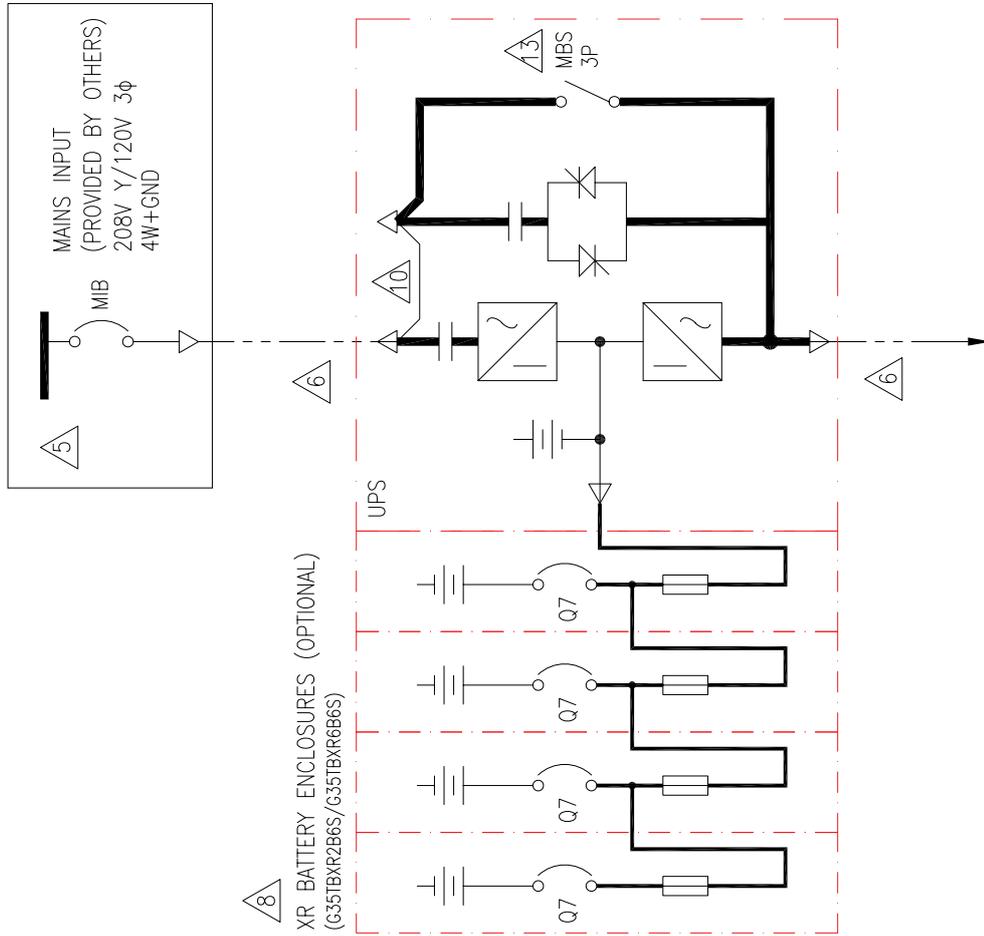
NOTE: A comprehensive set of drawings is available on the engineering website at engineer.apc.com.

NOTE: These drawings are for reference ONLY — subject to change without notice.

Typical System Arrangements



Single System 10-30 kVA 208 V



UPS SYSTEM OUTPUT
208V 3PH - 4 WIRE + GROUND

LEGEND:

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

DEVICE RATING FOR G35TBXR2B6S/G35TBXR6B6S

Q7	250A	CB 3-POLE 500V	SQUARED By Schneider Electric	KHL362502DCI386	1-SHUNT TRIP (24V/DC) 1-AUX. SWITCH
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- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
 2. PLEASE REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS.
 3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 4. 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.
 5. AC SOURCE TO BE 208VAC, 4W, WYE CONNECTED, 3φ (CONTACT APC IF OTHER)
 6. AC CABLING TO BE 600V RATED, 3 PHASE, 4W+GND.
 7. DC SOURCE TO BE 384VDC WITH CENTER TAP, 3W+GND.
 8. UP TO FOUR XR BATTERY ENCLOSURES CONNECTED TO THE UPS TO EXTEND BACKUP TIME.
 9. CABLE LUGS ARE PROVIDED BY OTHERS.
 10. REMOVABLE BUS LINK. TO BE REMOVED FOR DUAL MAINS.
 11. UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
 12. POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
 13. TO BE REMOVED FOR PARALLEL INSTALLATION.
 14. SINGLE MODULE, FOR LINEUP CONFIGURATION ONLY.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF MCE GALAXY 3600 AND SHALL BE KEPT IN CONFIDENTIALITY. ANY USE, REPRODUCTION, OR SALE OF THIS DRAWING OR ANY PART THEREOF WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC IS STRICTLY PROHIBITED. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.		TITLE: MCE GALAXY 3600 UPS SYSTEM MAINS INPUT: 208V 3PH 10-30kVA MWB WITHOUT SBP SYSTEM ONE LINE DIAGRAM		DWG NO: G35T10K30F1C1-SD		REV: 0	
Schneider Electric		DRAWN: C. KRISHNA		01-APR-10		ANGLE	
		ENGINEER: M. MAJSY		01-APR-10		PROJECTION	
		PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 2		APPROVED: B. SHERIDAN		N. A.	

Options

Hardware Options

Maintenance Bypass Cabinets

- Maintenance bypass cabinet 10-15 kVA 208 V floor-mounted (G35TSBP10K15F)
- Maintenance bypass cabinet 20-30 kVA 208 V floor-mounted (G35TSBP20K30F)
- Maintenance bypass cabinet 10-30 kVA 208 V floor-mounted with 42 position distribution panel (G35TSBP10K30F-DP)
- Maintenance bypass panel 10-30 kVA 208V wall-mounted with 42 position distribution panel (SBPSU10K30FC1M1-WP)
- Maintenance bypass panel 10-15 kVA 208 V wall-mounted (SBPSU10K15F-WP)
- Maintenance bypass panel 20-30 kVA 208 V wall-mounted (SBPSU20K30F-WP)
- Parallel maintenance bypass cabinet, up to 3 units 10-15 kVA 208 V floor-mounted (G35TSBPAR10K15F)
- Parallel maintenance bypass cabinet, up to 3 units 20-30 kVA 208 V floor-mounted (G35TSBPAR20K30F)

Modular Battery Cabinets

- Modular battery cabinet, with MCCB, with 2 battery modules expandable to 6 (G35TBXR2B6)
- Modular battery cabinet, with MCCB, with 6 battery modules (G35TBXR6B6)
- Modular battery cabinet with 2 battery modules expandable to 6 (G35TXR2B6)
- Modular battery cabinet with 6 battery modules (G35TXR6B6)
- Modular battery cabinet, with MCCB, with no battery modules expandable to 6 (G35TEFBXR6)

Input Transformers

- Input transformer 480/208 V 10-30 kVA floor-mounted (G35TXFM10K30G)
- Input transformer 208/208 V 10-30 kVA floor-mounted (G35TXFM10K30F)
- Input transformer MCCB 480/208 V 10-30 kVA floor-mounted (G35TSBPXFM10K30F)
- Input transformer MCCB 208/208 V 10-30 kVA floor-mounted (G35TSBPXFM10K30G)

Sensors

- Temperature sensor (AP9335T)
- Temperature and humidity sensor (AP9335TH)

Parallel Communication Kits

- Parallel communication kit (SUVTOPT009)
- Parallel communications kit, including Installation (SUVTOPT009S)

Modular Battery Modules

- Modular battery module (SYBT4)
- High performance modular battery module (SYBTH4)

Mounting Kits

Seismic kit, 523 mm (20 in) wide UPS cabinet (G35TOPT008)
Baying kit, 523 mm (20 in) wide UPS cabinet to modular battery cabinet (G35TOPT005)
Baying kit, modular battery cabinet to modular battery cabinet (G35TOPT006)
Parallel operation baying kit (G35TOPT011)

Management Cards

SMARTSLOT EXPANSION CHASSIS (AP9600)
SmartSlot triple chassis black (AP9604BLK)
Modbus/Jbus interface card (AP9622)
UPS network management card 2 (AP9630)
UPS network management card 2 with environmental monitoring (AP9631)

Filters

Dust filter replacement kit for 351 mm (14 in) narrow UPS cabinet (G35TOPT1)
Dust filter replacement kit for 523 mm (20 in) wide UPS cabinet (G35TOPT2)

Accessories

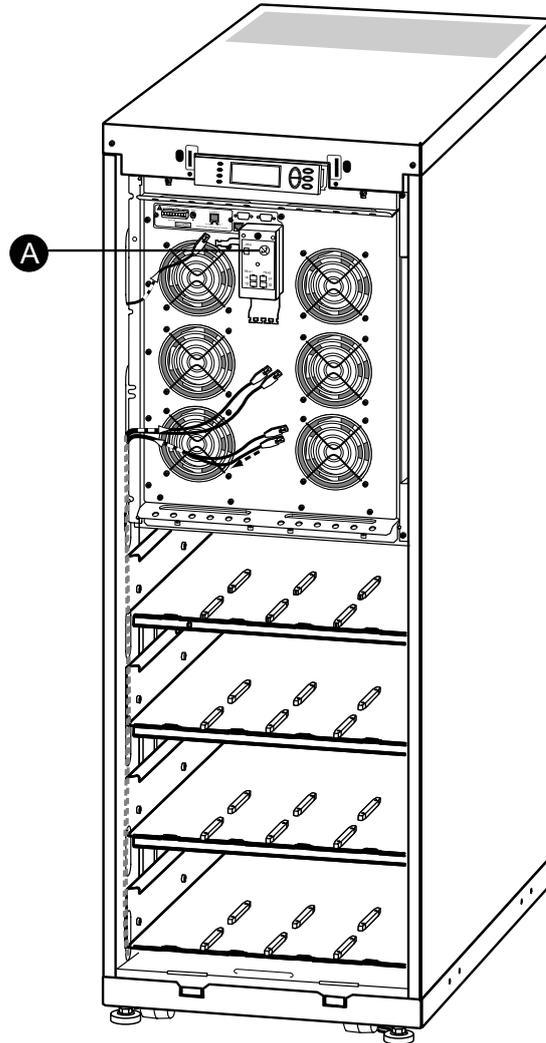
Conduit box for 351 mm (14 in) narrow UPS cabinet (SUVTOPT001)
Conduit box for 523 mm (20 in) wide UPS cabinet (SUVTOPT002)
Battery lock kit for 1 battery module (SUVTOPT003)
Parallel maintenance bypass kit (SUVTOPT010)
Subfeed distribution 208 V, (5) L21-20 & (1) 50A HW output (SUVTOPT104)
Subfeed distribution 208 V, (5) L21-20 & (1) 63A HW output (SUVTOPT105)

Configuration Options

Dual mains input
Automatic internal bypass
Modular batteries
Modular power modules
Generator compatible
Parallel up to four units for capacity and redundancy
IP51 for industrial environments
High Performance Battery module
Up to four modular battery cabinets
Parallel maintenance bypass panel – floor mount
Single unit maintenance bypass – wall mount and floor mount to single unit maintenance bypass
Transformer cabinets

Parallel Capabilities

- Up to four UPS units paralleled for capacity
- Up to four UPS units paralleled for redundancy (n+1)
- Communication between parallel units via the parallel communication box



A. Parallel communication box

Limited Factory Warranty

One-Year Factory Warranty

The limited warranty provided by Schneider Electric in this Statement of Limited Factory Warranty applies only to products you purchase for your commercial or industrial use in the ordinary course of your business.

Terms of Warranty

Schneider Electric warrants that the product shall be free from defects in materials and workmanship for a period of one year from the date of product start-up when start-up is performed by Schneider Electric-authorized service personnel and occurs within six months of the Schneider Electric shipment date. This warranty covers repairing or replacing any defective parts including on-site labor and travel. In the event that the product fails to meet the foregoing warranty criteria, the warranty covers repairing or replacing defective parts at the sole discretion of Schneider Electric for a period of one year from the shipment date. For Schneider Electric cooling solutions, this warranty does not cover circuit breaker resetting, loss of refrigerant, consumables, or preventive maintenance items. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable Warranty

This warranty is extended to the first person, firm, association or corporation (herein referred to by “You” or “Your”) for whom the Schneider Electric product specified herein has been purchased. This warranty is not transferable or assignable without the prior written permission of Schneider Electric.

Assignment of Warranties

Schneider Electric will assign you any warranties which are made by manufacturers and suppliers of components of the Schneider Electric product and which are assignable. Any such warranties are assigned “AS IS” and Schneider Electric makes no representation as to the effectiveness or extent of such warranties, assumes no responsibility for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this Warranty to such components.

Drawings, Descriptions

Schneider Electric warrants for the warranty period and on the terms of the warranty set forth herein that the Schneider Electric product will substantially conform to the descriptions contained in the Schneider Electric Official Published Specifications or any of the drawings certified and agreed to by contract with Schneider Electric if applicable thereto (“Specifications”). It is understood that the Specifications are not warranties of performance and not warranties of fitness for a particular purpose.

Exclusions

Schneider Electric shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was

caused by end user or any third person misuse, negligence, improper installation or testing. Further, Schneider Electric shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, start-up by non-Schneider Electric designated personnel, a change in location or operating use, exposure to the elements, Acts of God, fire, theft, or installation contrary to Schneider Electric recommendations or specifications or in any event if the Schneider Electric serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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