

Backup Power Solutions, (30–200 A), 1Ø



Table 12 - Backup Power Solutions (1Ø3W–120/240 Vac Backup Power — UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits ²⁷	Max. Tandem Circuit Breakers	Load Center Box and Interior	Equipment Ground Bar Kit (Order Separately)	Al	Cu	Box No. ²⁸
Generator Panels — Manual Transfer for Sub-Feed Applications NEMA 1 (Indoor) Factory-Installed Main Circuit Breakers with Mechanical Interlock — 10 kA Short Circuit Current Rating								
30 A	4	8	4	QO48M30DSGP	PK7GTA	8–1		4
60 A				QO48M60DSGP				
Generator Panels — Manual Transfer with Generator Power Inlet Plug for Sub-Feed Application NEMA 3R (Outdoor) Factory-Installed Main Circuit Breakers with Mechanical Interlock — 10 kA Short Circuit Current Rating								
100 A	4	8	4	QO1DM10020TRBR	Factory-Installed	—	8–2	17R
				QO1DM10030TRBR		—		
				QO1DM10050TRBR		—		

QO Riser Panels (125–200 A), 1Ø

Table 13 - QO Riser Panels (1Ø3W–120/240 Vac Special Applications — UL Listed)

Mains Rating	Spaces	Max. 1P Circuits ²⁹	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover		Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No. ²⁸
					Flush	Mono-Flat		Al	Cu	
Convertible Mains — Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating Convertible to QOM1 22 kA Short Circuit Current Rating Main Circuit Breaker when used with QOC cover below — Copper Bus										
125 A	12	24	12	QO112L125PWG	QOC20UFWG ³⁰	NQC20FWG ³⁰	PK15GTA	6–2/0		14
	20		4	QO120L125PWG						
Convertible Mains — Factory-Installed Main Lugs, 65 kA Short Circuit Current Rating Convertible to QOM2 22 kA Short Circuit Current Rating Main Circuit Breaker (See Indoor, QO Convertible Mains (125–225 A), 1Ø — Main Lugs, page 19) when used with QOC cover below — Copper Bus										
200 A	30	40	10	QO130L200PWG	QOC30UFWG ³⁰	NQC30FWG ³⁰	PK23GTA	4–300	4–250	23

27. Maximum single pole branch circuits utilizing QO and/or QOT (20 A MAX. NON-CTL.) circuit breakers.
 28. See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
 29. Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
 30. Available in gray and white colors. For white equivalencies add the “W” suffix to the reference or see QO Load Center Covers, page 43.

QO Standard Load Centers

Indoor, QO Fixed Mains (30–125 A), 1Ø — Main Lugs and Main Breaker

QO Standard Load Center Main Lugs and Main Breaker, Fixed Mains (1Ø3W–120/240 Vac Special Applications — UL Listed)

Table 16 - Low Amperage Fixed Main Lugs Indoor Load Centers (accepts only QO Plug-on Circuit Breakers — not compatible with QO Plug-on Neutral Circuit Breakers)

Mains Rating	Spaces	Max. 1P Circuit ³⁸	Max. Tandem Circuit Breakers	Load Center Box and Interior	Indoor Cover with Door		Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Flush	Surface	Al	Cu		
Fixed mains — Factory-Installed Main Lugs — 10 kA Short Circuit Current Rating³⁹										
30 A	2	2	0	QO20L30S ^{40, 41}	Cover Included — Without Door		12–10	14–10	PK3GTA1	1
70 A		4	2	QO24L70F/S ^{42, 43}			12–10	14–10	PK4GTA	2
100 A	6	12	6	QO612L100F/S ^{42, 44}	Cover Included — With Door		8–1/0	PK7GTA	4	
				QO612L100DF/S ^{42, 44}						
	8	16	8	QO816L100F/S ^{42, 44}	Cover Included — Without Door					
				QO816LL100DF/S ^{42, 44}						
	6	12	6	QO612L100DFCU/SCU ^{42, 44, 45}	Cover Included — With Door					
				QO816L100DFCU/SCU ^{42, 44, 45}						
8	16	8	QO816L100DFCU/SCU ^{42, 44, 45}							
125 A	4	8	4	QO148L125GF/S ^{42, 46}	Cover Included — Without Door	12–10	14–2/0	PK7GTA ⁴⁷	21	

Table 17 - Low Amperage Fixed Mains Indoor Load Centers with Factory Installed Ground Bar (Accepts only QO Plug-On Circuit Breaker — not compatible with QO Plug-on Neutral Circuit Breakers)

Mains Rating	Short Circuit Current Rating	Spaces	Max. 1P Circuits	Max. Tandem Circuit Breakers	Load Center, Box, Interior, and Cover	Equipment Ground Bar Kit (Order Separately)	Main Wire Size AWG/kcmil		Box No.
							Al	Cu	
Manufactured Houring: 1Ø2W 120 Vac — Main Lugs Only — CSA Certified									
30 A ⁴¹	10 kA	2	2	0	QO2L30TTS ⁴⁰	Factory-Installed	12–10	14–10	1
50 A			4	2	QO24L50TTS ⁴³		—	14–6	2
1Ø2W 120 Vac — Main Circuit Breaker — CSA Certified									
30 A	10 kA	3	5	2	QO35FM30TTF/S	Factory-Installed	48		3
1Ø2W 120 Vac — Main Circuit Breaker — CSA Certified									
70 A	10 kA	2	4	2	QO24L70TS ⁴³	Factory-Installed	12–3	14–4	2

38. Maximum single pole branch circuits utilizing QO and/or QOT circuit breaker.
 39. UL short circuit current rating depends on lowest interrupting rating of circuit breaker installed.
 40. Will not accept QO-EPD or Qwik-Gard QO-GFI or QO-AFI circuit breakers.
 41. Mains rated 25 A when Al wire is used.
 42. Order F for flush device or S for surface device.
 43. Use 10 AWG maximum size wire for GFI and AFI circuit breakers.
 44. 70 A Max. branch circuit breaker and 100 A max. back fed main circuit breaker.
 45. CU indicates copper bus.
 46. Copper bus.
 47. Factory-included
 48. Main circuit breaker is field-installed standard QO single pole circuit breaker.

Rainproof, QO Fixed & Convert. Mains (60–200 A), 1Ø — Main Lugs and Main Breaker



QO24L60NRNM



QO816L100RB

Table 19 - QO Standard Load Center Main Lugs, Fixed Mains (1Ø3W–120/240 Vac Rainproof — UI Listed

Mains Rating	Spaces	Max. Single Pole Circuits ⁵⁴	Max. tandem Circuit Breakers	Load Center Box and Interior	Main Wire Size AWG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
					Al	Cu		
Non-Metallic Enclosure Fixed Mains — Factory-Installed Main Lugs — 10 kA Short Circuit Current Rating								
60 A	2	4	2	QO24L60NRNM	12–4	14–4	Factory-Installed	1NM
Metallic Enclosure Fixed Mains — Factory-Installed Main Lugs — 10 kA Short Circuit Current Rating								
40 A	2	2	0	QO2L40RB ⁵⁵	12–6	14–6	PK3GTA1	1R
70 A		4	2	QO24L70RB ⁵⁵	12–3	14–4	PK4GTA	
100 A	6	12	6	QO612L100RB ⁵⁶	8–1/0		PK7GTA	2R
				QO612L100TRB ⁵⁶			Factory-installed	
	8	16	8	QO816L100RB ⁵⁶			PK7GTA	
	6	12	6	QO612L100RBCU ^{56, 57}				
8	16	8	QO816L100RBCU ^{56, 57}					
125 A	4	8	4	QO148L125GRB ⁵⁷	12–2/0	14–2/0	PK7GTA Factory-Included	15R

Table 20 - QO Standard Load Center Main Breaker, Convertible Mains (1Ø3W–120/240 Vac Rainproof — UL Listed

Mains Rating	Spaces	Max. Single Pole Circuits ⁵⁴	Max. tandem Circuit Breakers	Load Center Box and Interior	Main Wire Size AWG / kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. ⁵⁸
					Al	Cu		
Convertible Mains — Factory-Installed Main Circuit Breaker with Feed-thru Lugs, 22 kA Short Circuit Current Rating Convertible to Main Lugs or Lower Amperage Main Circuit Breaker ^{59, 60} QOM1 or QOM2 Main Circuit Breaker Frame Size — Copper Bus								
125 A	6	12	6	QO1612M125FTRB ⁶¹	4–2/0		PK12GTA	3R
150 A	8	16	8		4–250		PK15GTAL	4R
200 A	8	16	8	QO1816M200FTRB ⁶¹				

54. Maximum single pole branch circuits utilizing QO and/or QOT circuit breakers.
 55. Use 10 AWG maximum size wire for GFI and AFI circuit breaker.
 56. 70 A Max. branch circuit breaker and 70 A max. back fed main circuit breaker.
 57. Copper bus.
 58. See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
 59. Side hinge door device; allow 1–1/4 in. on left side for door to open.
 60. 22 k AIR main circuit breaker UL Listed for use ahead of QO, QOT, QO-GFI, QO-AFI, QO-EPD and QOPL 10 k AIR branch circuit breakers to permit their application on systems up to 22 kA
 61. QO1612M125FTRB provided with QOM1 frame main circuit breaker. QO1816M150FTRB and QO1816M200FTRB provided with QOM2 frame main circuit breaker.

Technical Information

Indoor, HOM Fixed Mains (70-125 A) — Main Lugs



HOM24L70F



HOM612L100F



HOM48L125GC

Table 35 - HOM Standard Load Center Main Lugs, Fixed Mains (1Ø3W—120/240 Vac Indoor—UL Listed)

Mains Rating	Spaces	Max. Single Pole Circuits ⁸⁸	Max. Tandem Circuit Breakers	Load Center Box, Interior ⁸⁹	Main Wire Size AWG/kcmil		Equipment Ground Bar Kit (Order Separately)	Box No. ⁹⁰
					Al	Cu		
Main Lugs—10 kA Short Circuit Current Rating Order HOM Circuit Breakers								
70 A	2	4	2	HOM24L70F/S ^{91, 92}	12–3	14–4	PK3GTA1	2
100 A	6	12	6	HOM612L100F/S ^{91, 93}	6–2/0	8–1	PK7GTA	4
125 A	4	8	4	HOM48L125GC	12–2/0	14–2/0	PK7GTA included	21

88. Maximum single pole branch circuits utilizing HOM and/or HOMET circuit breakers.
 89. C at end of catalog number indicates combination flush/surface cover included with device.
 90. See QO/Homeline Enclosure Dimensions and Knockout Information, page 67.
 91. F/S at end of catalog number indicates to order F for flush device or S for surface device. The cover does not have a door.
 92. HOM-GFI and HOM-AFI branch circuit breakers are limited to number 10 maximum wire.
 93. 70 A maximum branch circuit breaker, 100 A maximum back feed main circuit breaker.

Rainproof, HOM Fixed and Convertible Mains (70–225 A) Main Lugs



Table 43 - HOM Standard Load Center Main Lugs, Fixed Mains (1Ø3W–120/240 Vac Rainproof UL—Listed)

Mains Rating	Spaces	Max. Single Pole Circuits ¹⁰⁹	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/ kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
				Cat. No. (DE3C)	Al	Cu	Cat. No. (DE3A)	
Main Lugs—10 kA Short Circuit Current Rating								
Factory-installed Fixed Main Lugs, 10 kA Short Circuit Current Rating								
70 A	2	4	2	HOM24L70RB ¹¹⁰	12–3	14–4	PK4GTA	1R
100 A	6	12	6	HOM612L100RB ¹¹¹	8–1		PK7GTA	2R
125 A	4	8	4	HOM48L125GRB	12–2/0	14–2/0	PK7GTA Included	15R

Table 44 - HOM Plug-on Neutral Load Center Main Lugs, Convertible Mains (1Ø3W–120/240 Vac Rainproof UL—Listed)

Mains Rating	Spaces	Max. Single Pole Circuits ¹¹²	Max. Tandam Circuit Breakers	Load Center Box, Interior and Cover	Main Wire Size AWG/ kcmil		Equipment Ground Bar Kit (Order Separately)	Box No.
				Cat. No. (DE3C)	Al	Cu	Cat. No. (DE3A)	
Convertible Mains with Factory-installed Main Lugs ¹¹², QOM1 Main Frame Size—Convertible to Main Circuit Breaker								
125 A	8	16	8	HOM816L125PRB	6–2/0	6–1	PK9-27GTA(L)	3R
	12	24	12	HOM1224L125PRB				
	20	40	20	HOM2040L125PRB				
	24	48	24	HOM2448L125PRB				
Convertible Mains with Factory-installed Main Lugs ¹¹³, QOM2 Main Frame Size—Convertible to Main Circuit Breaker								
225 A	12	12	0	HOM12L225PRB	4–300	4–250	PK9-27GTA(L)	5R
	16	32	16	HOM1632L225PRB				
	20	40	20	HOM2040L225PRB				
	30	60	30	HOM3060L225PRB				
	40	80	40	HOM4080L225PRB				
	42	84	42	HOM4284L225PRB				

109. Maximum single pole branch circuits utilizing HOM and/or HOMT circuit breakers.

110. HOM-GFI and HOM-AFI branch circuit breakers are limited to number 10 maximum wire.

111. 70 A maximum branch circuit breaker, 100 A maximum back feed main circuit breaker.

112. Side hinge door device allow 1-1/4 in. on left side for door to open.

113. Convertible mains with factory-installed main lugs, QOM2 main frame size—convertible to main circuit breaker.

Table 71 - Manual Transfer Equipment Kit



QO2DTI



QODTIM



PK4DTIM4LA



PK4DTIM4LAL



PK7GTA



PK12GTA



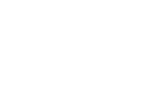
PK15GTA6



PKG7GTA
PK9GTA



PK15GTAL
PK18GTAL



PK23GTAL



PKG7GTA
PK9GTA
PK12GTA
PK15GTA
PK18GTA
PK23GTA
PK27GTA

(Manual transfer equipment kits secure two 2-pole, 10-125 A circuit breakers.)		
Load Center	Load Center	Usage Information
QO	QO2DTI	For interlocking the handles of two 2P or one 2P and one 1P QO and Q1 circuit breakers mounted side-by-side so that only one circuit breaker can be ON at a time.
	QODTIM	QO2DTI mechanical interlock attachment with retaining kits for securing two adjacent back-fed circuit breakers in dual power supply applications. Can be used with (2) 2P or (1) 2P and (1) 1P QO circuit breakers in QO816L100 load centers.
	PK4DTIM4LA	Secures two 2P circuit breakers to right side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 1Ø 100–125 ampere convertible main load centers. Series S01 and S02.
	PK4DTIM4LAL	Secures two 2P circuit breakers to left side of interior when used as back-fed mains, a QO2DTI Kit included for back-up power supply applications. For 1Ø 100–125 ampere convertible main load centers. Series S01 and S02.

Table 72 - Ground Bar Kits

(Field-installable in all load centers. Same wire size as neutral terminals. Suitable for copper or aluminum wire)		
Load Center	Load Center	Usage Information
QO and Homeline	PK3GTA1	Ground Bar Assembly—3 connectors
	PK4GTA	Ground Bar Assembly—4 connectors
	PK5GTA	Ground Bar Assembly—5 connectors
	PK7GTA	Ground Bar Assembly—7 connectors
	PK9GTA	Ground Bar Assembly—9 connectors
QO	PK12GTA	Ground Bar Assembly—12 connectors
QO and Homeline	PK15GTA	Ground Bar Assembly—15 connectors
	PK18GTA	Ground Bar Assembly—18 connectors
	PK23GTA	Ground Bar Assembly—23 connectors
	PK27GTA	Ground Bar Assembly—27 connectors
QO	PK15GTA6	Ground Bar Assembly—21 connectors. Use in high amperage load centers
	PK15GTAL	Standard PK15GTA with a 1–4/0 Al/Cu Lug
QO and Homeline	PK18GTAL	Standard PK18GTA with a 1–4/0 Al/Cu Lug
QO	PK23GTAL	Standard PK23GTA with a 1–4/0 Al/Cu Lug
QO and Homeline	PKG7GTA	Ground Bar Pack— PK9GTA, PK9GTA, and LK100AN
	PKG7GTA	Ground Bar Pack— PK9GTA, PK18GTA, and LK100AN
	PKG7GTA	Ground Bar Pack—PK15GTA, PK18GTA, and LK100AN
	PKG7GTA	Insulator Kit for PK7GTA through PK27GTA



Table 73 - Ground Bar Kits

(All PK equipment grounding kits are supplied with mounting screws, necessary installation instructions, and an equipment grounding terminal self-adhesive label.)												
Catalog No.	Total Qty.	Terminals						Approximate Overall Length		Distance Between Mounting Holes		Mounting
		Quantity Each Size (See Wiring Range , page 77)										
		I	II	III	IV	V	VI	in.	mm	in.	mm	
PK3GTA1	3	3	—	—	—	—	—	1.38	35	One hole	One hole	Top
PK4GTA	4	4	—	—	—	—	—	1.63	41	One hole	One hole	Top
PK5GTA	5	5	—	—	—	—	—	2.25	57	1.25	32	Top
PK7GTA	7	7	—	—	—	—	—	2.88	73	1.25	32	Top or Side
PK9GTA	9	9	—	—	—	—	—	3.78	96	3.13	80	Top
PK12GTA	12	12	—	—	—	—	—	4.7	119	3.13	80	Top
PK15GTA	15	15	—	—	—	—	—	5.63	143	3.13	80	Top
PK15GTAL	16	15	1	—	—	—	—	8.13	207	3.13	80	Top
PK15GTA6	21	15	—	—	6	—	—	5.88	149	124	124	Top
PK18GTA	18	18	—	—	—	—	—	8.13	167	3.13	80	Top
PK18GTAL	19	18	1	—	—	—	—	5.88	224	3.13	80	Top
PK23GTA	23	23	—	—	—	—	—	6.56	206	3.13	80	Top
PK23GTAL	24	23	1	—	—	—	—	8.81	240	3.13	80	Top
PK27GTA ¹²⁵	27 or 26	27 or 26	—	1	—	—	—	8.11	238	3.13	80	Top

Table 74 - Wiring Range

Size	Cu (AWG)	Al (AWG)
I	(1) #14 – # 4 or (2) #14 or #12	(1) #12 – #4 or (2) #12 or #10
II	(1) #1 – 4/ 0	(1) #1 – 4/0
III	(1) #6 – 2/ 0	(1) #6 – 2/0
IV	(1) #6 – 3/0	(1) #6 – 3/0
V	(1) #14 – 1/0	(1) #14 – 1/0
VI	(1) #10 – 2/0	(1) #6 – 2/0

124. 3.13 in. (80 mm) on small terminals; 5.25 in. (133 mm) on large terminals.

125. PK27GTA includes one main grounding lug that mounts with two terminal screws and requires three terminals for mounting.