

Catalog Number System

For illustrative purposes only.

T H QL 1 1 15						
GE Identification	Interrupting Rating	Type	Poles	Voltage	Ampere Rating	Insert for Specials
	H = 10kAIC	QL = 1" Plug-in		1 = 120/240Vac		GF = 1 pole GFCI
	HH = 22kAIC	QP = ½" Plug-In		2 = 240V		GF1 = 2-pole GFCI
	X = 65kAIC	QB = 1" Bolt-on		Omit for THQP breakers (all 120/240Vac)		AF = AFCI

Circuit Breaker Selection Guide

Recommendations based on standard conditions. Installation must conform to all local and national codes.

Application					Selection	
					Recommended Circuit Breaker	
Appliance	Average Watts	Volts	Amps	Wire Size	½-inch	1-inch
Air Conditioner Up to 11,000 BTU Up to 23,000 BTU Up to 30,000 BTU	1200	120	20A	2#12	THQP120	THQL1120
	2400	240	20A	3#12	THQP220	THQL2120
	7200	240	30A	3#10	THQP230	THQL2130
Attic Fan Up to ½ HP Up to 1 HP		120	15A	2#14	THQP115	THQL1115
		120	20A	2#12	THQP120	THQL1120
Bathroom or Outdoor Receptacles	1400	120	15A	2#14	—	THQL1115GF
	1900	120	20A	2#12	—	THQL1120GF
Bedroom Receptacles (for maximum safety; required by 2002 NEC)	1400	120	15A	2#14	—	THQL1115AF
	1900	120	20A	2#12	—	THQL1120AF
Branch Circuits (Indoor Receptacles)	1400	120	15A	2#14	THQP115	THQL1115
	1900	120	20A	2#12	THQP120	THQL1120
Clothes Dryer	5000	240	30A	3#10	THQP230	THQL2130
Dishwasher	1800	120	20A	2#12	THQP120	THQL1120
Doorbell Transformer	500	120	15A	2#14	THQP115	THQL1115
Electric Heater	1650	120	20A	2#12	THQP120	THQL1120
Electric Range	10000	240	50A	3#6	THQP250	THQL2150
Electric Welder (240V; over 10' away)		240	50A	3#6	THQP250	THQL2150
Fixed Lighting	1200	120	15A	2#14	THQP115	THQL1115
Garbage Disposal	300	120	20A	2#14	THQP120	THQL1120
Hot Tub or Spa		240	40	2#8	—	THQL2140GF1
		240	50	2#8	—	THQL2150GF1
Hot Water Heater	4500	240	30A	2#10	THQP230	THQL2130
Motors (Single Phase) Up to ½ HP ½ to 1 HP 1 to 1 ½ HP 1 ½ to 3 HP		120	15A	2#14	THQP115	THQL1115
		120	20A	2#12	THQP120	THQL1120
		240	15A	2#14	THQP215	THQL2115
		240	30A	2#10	THQP230	THQL2130
Refrigerator or Freezer	350	120	15A	2#14	THQP115	THQL1115
Sump Pump Up to ½ HP ½ to 1 HP		120	15A	2#14	THQP115	THQL1115
		120	20A	2#12	THQP120	THQL1120
Washing Machine	1200	120	15A	2#14	THQP115	THQL1115
Well Pump Up to ½ HP ½ to 1 HP		120	20A	2#12	THQP120	THQL1120
		240	15A	2#14	THQP215	THQL2115
		120	30A	2#10	THQP130	THQL1130
		240	20A	2#12	THQP220	THQL2120
		240	20A	2#8	THQP240	THQL2140

Special Safety Circuit Protection Products

Included among GE's circuit protection products are several that add the extra measure of safety that is increasingly important to today's new home buyers and remodelers. See page 8 for details.

Safety Need	Safety Solution	Amp Rating
Ground fault protection for circuits supplying power to outdoor, bathroom, kitchen, garage and spa area receptacles.	GFCIs (ground fault circuit interrupters)	15-50
Maximum protection against fires through detection and interruption of arcing caused by damaged wire insulation or extension cords. The 2002 NEC will require this protection in bedroom circuits.	AFCIs (arc fault circuit interrupters)	15-20
Whole house protection of sensitive electronic equipment – computers, fax machines, televisions, stereos, VCRs – from electrical surges.	Surge arrester	NA

[HIGHER QUALITY. LOWER INSTALLED COST.] PowerMark Gold™ Load Centers



Packaging features comprehensive selection and application data. Fronts are packed in inner cartons for added protection during shipment and at the job site.

A complete family of meter socket load centers — ring style and ringless, wide and narrow, meter mains, farm panels and more — deliver specialized solutions for special situations.

Main lug load centers offer an economical solution for sub-panels and similar applications. All main lug units 125A and above convert easily to main breaker.

GE's residential load centers reach into commercial applications as well, with riser panels, auxiliary gutters, three-phase units with standard 22kAIC ratings, and all the accessories needed to complete the job.

The PowerMark Gold line includes a wide range of outdoor as well as indoor units.

All PowerMark Gold load centers are designed and built for faster installation and more dependable performance.

- One-piece interior removes and reinstalls easily.
- Full-length neutrals are easier to wire, reducing installation time and cost.
- Minimum 100% neutral terminations.
- Sturdy copper bus and galvanized box increase durability and reliability.
- Combination slotted/Robertson screws speed wiring.
- All holes are rated for 14-4 wire.
- 100% rated split neutral on each side.
- Load centers accept Q Line circuit breakers, including GE's exclusive ½" THQPs.

Accessories & Options

- Door lock & handle
- Equipment ground kits
- Sub-feed & feed-thru lugs
- Front filler plates
- Handle lock & ties
- Hardware kits
- Main breaker retainers
- Neutral kits
- Universal raintight hubs

Catalog Number System

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T M 42 4 20 C CU B							
GE Identification	Type	Maximum Number of 1" Spaces	Insert for 3-phase, 4-wire Load Centers	Bus Ampere Rating	Enclosure Type	Insert for PowerMark Gold	Insert for Specials
	M = Main Breaker	4 - 42		10 = 100A	C = Combination Flush and Surface, Indoor F = Flush S = Surface R = Outdoor	CU = Copper Bus	G or T = Factory Installed Ground Bar
	L = Main Lug			12 = 125A			B = Bottom Feed Main Breaker
	LM = Convertible			15 = 150A			FL = Factory installed Feed-thru Lugs
	PL = Main Lug, Thermoplastic Enclosure			20 = 200A			D = Optional door for 6-8 circuit indoor panels. (Doors are standard on all other units.)
				22 = 225A			
				40 = 40A			
				60 = 60A			
				70 = 70A			

Load Center Selection Guide

(For details on these and other load centers, see the selection tables on the following pages.)

Main Breaker Load Centers										
Main Amp Rating	Max. Branch Breaker Rating (Amps)		Maximum Spaces					Cat. No.		
	Cu	Al	1" THQL		½" THQP		Total 1-pole Spaces	Base Cat. No.①	Suffix 1②	Suffix 2③
			1-pole	2-pole	1-pole	2-pole				
60	60	60	4	2	8	4	8	TM860	F,S	CUGEN
100	100	100	12	6	24	10	24	TM1210	C,R	CU
			20	10	—	—	20	TM2010	C,R	CU
			32	16	—	—	32	TM3210	C	CU
125	125	125	24	12	—	—	24	TM2412	C,R	CU
			12	6	24	10	24	TM1212	C,R	CU
			16	8	16	6	24	TM1612	C	CU
150	150	150	8	4	16	6	16	TM815	R	CUFL
			24	12	20	6	30	TM2415	C,R	CU
			32	16	—	—	32	TM3215	C,R	CU
			16	8	32	14	32	TM1615	C,R	CU
200	200	175	8	4	16	6	16	TM820	R	CUFL
			16	8	32	16	32	TM1620	C	CU
			20	10	40	20	40	TM2020	C,R	CU
			32	16	16	6	40	TM3220	C,R	CU
			40	20	—	—	40	TM4020	C,R	CU
Convertible Load Centers										
Main Amp Rating	Max. Branch Breaker Rating (Amps)		Maximum Spaces					Cat. No.		
	Cu	Al	1" THQL		½" THQP		Total 1-pole Spaces	Base Cat. No.①	Suffix 1②	Suffix 2③
			1-pole	2-pole	1-pole	2-pole				
100	70	55	6	3	12	4	12	TLM612	S,F	CU, D
			8	4	16	6	16	TLM812	S,F	CU, D
125	125	125	24	12	—	—	24	TLM2412	C,R	CU
			12	6	24	10	24	TLM1212	C,R	CU
			16	8	12	6	24	TLM1612	C	CU
150	150	150	20	10	—	—	20	TLM2015	C	CU
			24	12	12	6	30	TLM2415	C,R	CU
200	200	175	16	8	32	14	32	TLM1620	C,R	CU
			20	10	40	18	40	TLM2020	C,R	CU
			32	16	16	6	40	TLM3220	C	CU
			40	20	—	—	40	TLM4020	C,R	CU
Main Lug Load Centers										
Main Amp Rating	Max. Branch Breaker Rating (Amps)		Maximum Spaces					Cat. No.		
	Cu	Al	1" THQL		½" THQP		Total 1-pole Spaces	Base Cat. No.①	Suffix 1②	Suffix 2③
			1-pole	2-pole	1-pole	2-pole				
40	40	40	2	1	4	1	4	TL240	C,R	CU
70	70	60	2	1	4	1	4	TL270	C,R	CU
125	70	55	4	2	8	3	8	TPL412	C,R	—
			4	2	8	3	8	TL412	C, R1	—

① Catalog number is constructed by adding Suffix 1 and Suffix 2 to Base Catalog Number.

② F = Flush mount indoor
S = Surface mount
C = Combination flush/surface mount indoor
R, R1 = Outdoor

③ CU = Copper bus
CUFL = Copper bus, feed-thru lugs
CUGEN = Copper bus, generator panel with dual main circuit breakers
D = Optional door for 6- and 8-circuit indoor panels (door standard on outdoor panels)

[SELECTION TABLES.] PowerMark Gold™ & Plus™ Load Centers

- UL Listed (Panelboards No. 67)
- 60°C/75°C Conductor Rating
- Indoor Fronts Combination Surface/Flush
- Suitable for Use as Service Entrance Equipment When Installed in Accordance with the National Electrical Code
- 22kAIC RMS Symmetrical, Except Where Noted

Main Lug & Convertible Load Centers

Single-phase, Three-wire, 120/240 Volts ac, Top Feed^①

Factory Installed Main Lugs (TLM units convertible to main breaker)

PowerMark Plus catalog numbers shown in *italics*

Main Ampere Rating	Maximum Spaces					Indoor Type 1 Enclosure ^{②③}		Outdoor Type 3R Enclosure ^③		Main Wire Size AWG/ kcmil Cu-Al	Equipment Ground Kit
	1"THQL		½"THQP		Total 1-pole	Cat. No.	Box No. See Page 24	Cat. No.	Box No. See Page 25		Order Separately See Page 16
	1p	2p	1p	2p	Spaces						Cat. No.
40	2	1	4	1	4	TL240SCU ^④	1A	TL240RCU	R1A	14-4	TGK4
70	2	1	4	1	4	TL270SCU ^④	1A	TL270RCU	R1A	6-3	TGK4
125	4	2	8	3	8	TL412C ^⑤	2A	TL412R1 ^⑥	R1A	1-2/0	TGL1
	4	2	8	3	8	TL412CT ^{⑤⑥}	2A	TL412RT1 ^⑥	R1A		TGL1 Installed
	4	2	8	3	8	—	—	TL412R2 ^⑥	R1B		TGL1
	4	2	8	3	8	TPL412C ^{⑤⑦}	2	TPL412R ^{⑥⑦}	R1		TGL1
	4	2	8	3	8	TPL412CT ^⑤	2	TPL412RT ^{⑥⑧}	R1	TGL1 Installed	
	6	3	12	6	12	TLM612FCU, SCU ^⑨	3B, 3A	TLM612RCU ^⑨	R2A	6-3	TGK12
	8	4	16	8	16	TLM812FCU, SCU ^{⑨⑩}	3B, 3A	TLM812RCU ^⑩	R2A		TGK12
	12	6	24	10	24	TLM1212CCU ^⑩	4	TLM1212RCU ^⑩	R3	6-2/0	TGL2
	12	6	24	10	24	TLM1212CCUG ^⑩	4	—	—		TGK24 Installed
	16	8	16	6	24	TLM1612CCU ^⑩	4	—	—		TGK12 or TGK24
	24	12	—	—	24	TLM2412CCU ^⑩	7	TLM2412RCU ^⑩	R4		TGK12 or TGK24
150	20	10	20	8	30	TLM2015CCU	8	—	—	1-3/0 (Cu) 2-3/0 (Al)	TGK32
	24	12	12	4	30	TLM2415CCU	9	TLM2415RCU	R6		TGK24 or TGK32
200	12	6	24	10	24	—	—	TLM1220RCU	R5	1-250 (Cu) 2/0-250 (Al)	TGK24
	16	8	32	14	32	TLM1620CCU	8	TLM1620RCU	R5		TGK32
	16	8	32	16	32	TLM1620CCUG	8	—	—		TGK32 Installed
	20	10	40	18	40	TLM2020CCU	9	TLM2020RCU	R6		TGK24 or TGK42
	20	10	40	18	40	TLM2020CCUG	9	—	—		TGK42 Installed
	32	16	16	6	40	TLM3220CCU	12	—	—		TGK32
225	42	20	—	—	42	TLM4020CCU	13	TLM4020RCU	R8	1-300 (Cu) 2/0-300 (Al)	TGK42
	42	20	—	—	42	TLM4222CCU	14	TLM4222RCU	R8		TGK42
400	24	20	—	—	24	TL2440FS	16	TL2440R	R9	(2) 2/0-250	(2) TGL2
	42	20	—	—	42	TL4240FS ^⑪	16	TL4240R ^⑪	R9		(2) TGL2
600	42	20	—	—	42	TL4260FS ^⑪	17	TL4260R ^⑪	R9	(2) 250-350 (Cu) (2) 350-500 (Al)	(2) TGL2

① 6-42 circuit devices UL Listed for bottom mounted lugs by installing complete unit (box, interior and front) upside down. For bottom feed door handle, see page 17.

② 40-225 amp single-phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately (see page 17).

③ TPL load center enclosures are thermoplastic; TL and TLM load center enclosures are galvanized steel.

④ No door.

⑤ No door, 10kAIC.

⑥ 10 kAIC.

⑦ Maximum branch or main circuit breaker rating: 90 amp with Cu, 70 amp with Al.

⑧ 125 amp maximum branch capacity.

⑨ FCU indicates flush mount enclosure; SCU indicates surface mount enclosure. Add D to catalog number for optional door (example: TLM612SCUD).

⑩ For main breaker, order THQLRK2 retainer kit plus 2-pole circuit breaker. See page 17.

⑪ For main breaker, order TQMH000. Also order 2-pole THQL, THQL or TXQL circuit breaker. See page 16.

⑫ Not suitable for use as service entrance equipment.

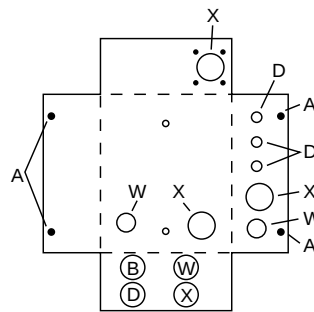
[DIMENSIONS AND KNOCKOUTS.] PowerMark Gold™ & Plus™ Load Centers Outdoor Enclosures

Dimensions (in inches)

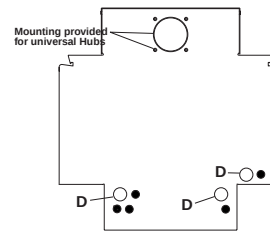
Box No.	Width	Height	Depth
R1	7½	9½ ₃₂	3½ ₁₆
R1A	7½	10	3½
R1B	7½	13	3½
R2A	11½	11½	3½
R3	12½	21½ ₁₆	4½
R4	12½	26½ ₁₆	4½
R5	12½	28½ ₁₆	4½
R6	12½	32½ ₁₆	4½
R7	12½	35½ ₁₆	4½
R8	12½	43½ ₁₆	5½
R9	16	45½ ₁₆	5½ ₃₂
R10	20	48½ ₁₆	6½
R11	20	59½ ₁₆	6½

Knockouts

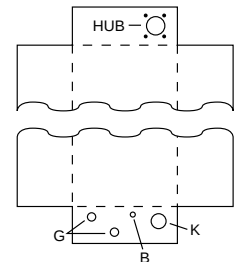
Symbol	A	•	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD
Conduit Size in Inches	⅛	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	¼	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	¾	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3½	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



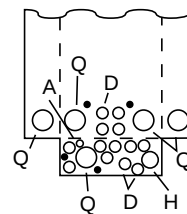
Box R1



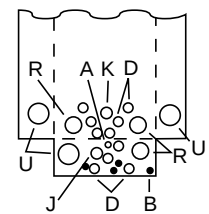
Box R2A



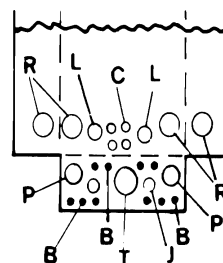
Box R1A



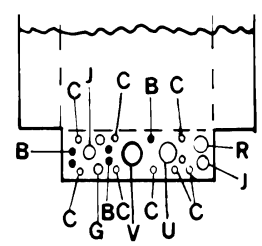
Box R3, R4, R5, R6, R7



Box R8



Box R9



Box R10, R11