

# Load Centers and Circuit Breakers

## PowerMark Gold Load Centers

### Single-Phase, Three-Wire, 120/240 Vac

## Section 1

Load Center  
Generator Panels  
Riser Panels  
Spa Panels

### Product Features - Generator Panels

- Suitable for use in accordance with Article 702 of the National Electrical Code, ANSI/NFPA 70
- Single-phase, 2 interlock 60A or 30A main breakers, 8 circuits max.
- Safety and convenience when using a generator - 14,000 peak wattage, 11,520 continuous load, 48 amps at 240 volts.
- Maintains power to such critical circuits as those for furnace, pump, refrigerator, lights.
- Connected dual breaker mechanism ensures that only one source is active at a time.



TL412R250GF



TM830FCUGEN

### Generator Panels, Two Interlocked Main Breakers Factory Installed Indoor (NEMA 1) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
30	4	2	8	4	8	Flush Front	Top Bottom	3A	6-1	TGK12 included	TM830FCUGEN
30	4	2	8	4	8	Surface Front	Top Bottom	3A	6-1	TGK12 included	TM830SCUGEN
60	4	2	8	4	8	Flush Front	Top Bottom	3A	6-1	TGK12 included	TM860FCUGEN
60	4	2	8	4	8	Surface Front	Top Bottom	3A	6-1	TGK12 included	TM860SCUGEN

### Generator Panels, Two Interlocked Main Breakers Factory Installed Outdoor (NEMA 3R) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
30	4	2	8	4	8	Top	Top	R2A	6-1	TGK12 included	TM830RCUGEN
60	4	2	8	4	8	Top	Top	R2A	6-1	TGK12 included	TM860RCUGEN

### Riser Panels

#### Indoor (NEMA 1) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
125	20	10	40	20	40	Combination Flush/Surface Front	Top	9A	6-2/0	TGK12 (order separately)	TLM2012CCURP
125	12	6	24	10	24	Combination Flush/Surface Front	Top	4A	6-2/0	TGK12 (order separately)	TLM1212CCURP

Tap kits required, order separately. See page 1-30.

Auxiliary gutters available. See page 1-30.

### Spa Panels

#### Outdoor (NEMA 3R) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Load Center Type	Feed Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
125	4	2	8	4	8	Factory Included 50A GFCI	Top Bottom		1-2/0	TGL1 installed	TL412R250GF
125	4	2	8	4	8	Factory Included 60A GFCI	Top Bottom		1-2/0	TGL1 installed	TL412R260GF

### Twist Lock Power Inlets

Receptacles	Amps	Volts	UL	Product Number
L14-20	20	120/240	Canada, US	T020N
L14-30	30	120/240	Canada, US	T030N
CS637	50	120/240	Canada, US	T050N



# Load Centers and Circuit Breakers

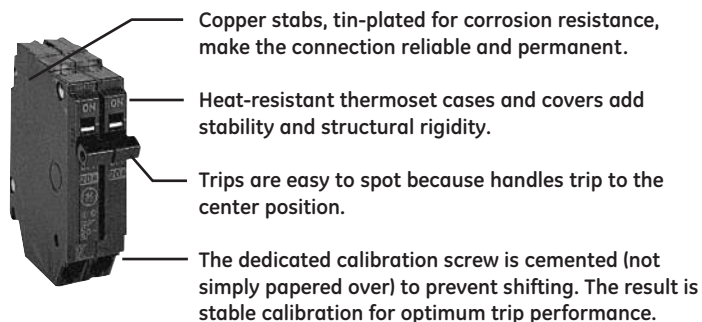
## Q-Line Circuit Breakers

Reliability and Economy

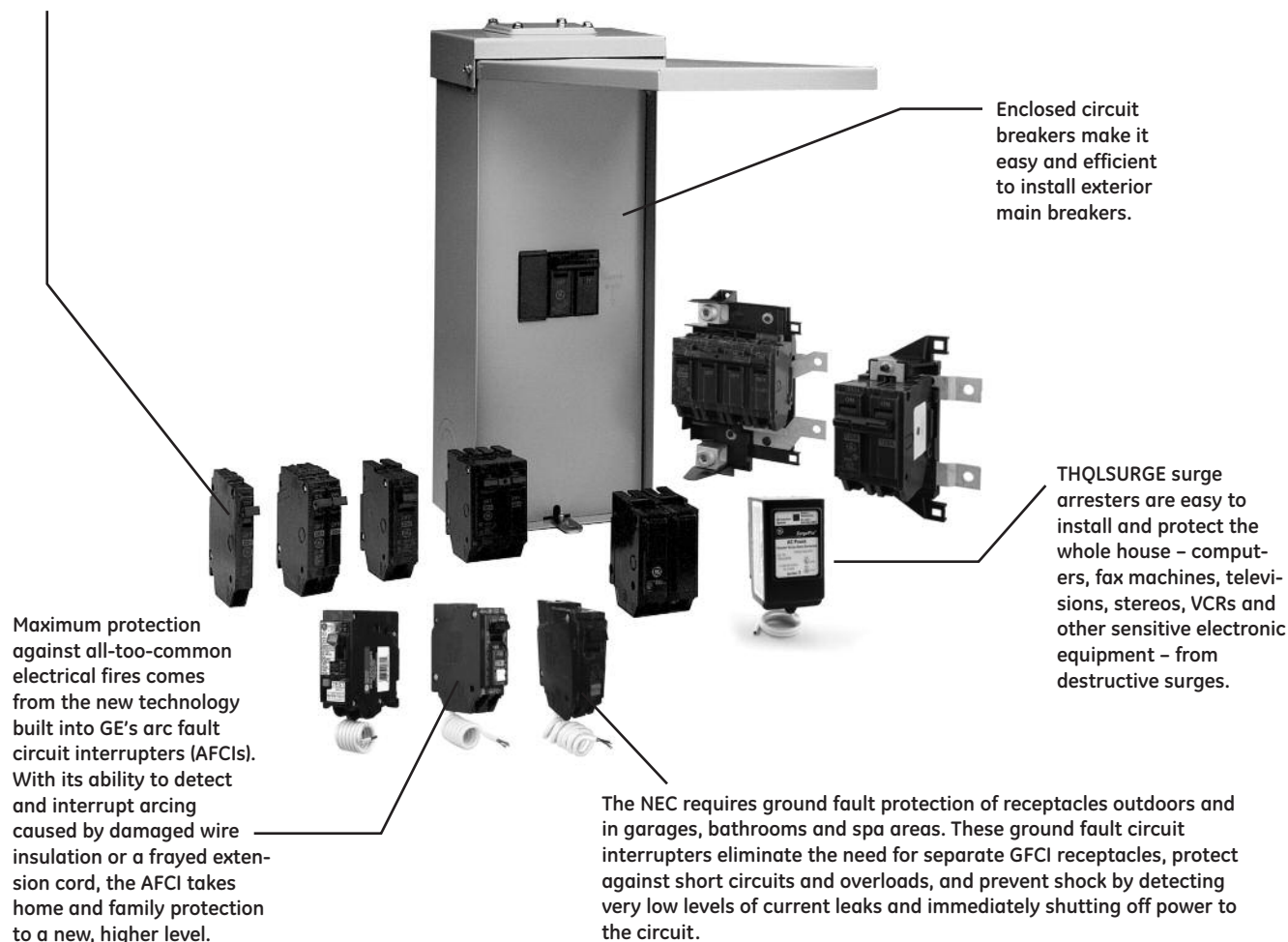
## Section 1

### Special Purpose Circuit Breakers

- PowerMark Gold Main Circuit Breakers
- Arc Fault Circuit Interrupter
- Dual Function GFCI/AFCI Ground Fault & Combination Arc Fault Circuit Breaker
- Ground Fault with Self-Test Feature
- Ground Fault with Equipment Protection
- Switching Neutral
- HID Lighting Breaker
- High Magnetic Breaker
- Molded Case Switch
- Surge Arrester
- TQ Breaker



At 1/2", THQP breakers are half the width of standard breakers, permitting the use of smaller load centers that save money and space in both new construction and service upgrades. They feature the same high-performance design, and meet the same stringent standards as other Q-Line breakers. Our 1" THQL will remain the breaker of choice for many contractors. In applications where space and cost are not critical, they're an excellent choice. But when size and money are driving considerations, THQP breakers are the smart choice.



# Load Centers and Circuit Breakers

## PowerMark Gold Load Centers

Highest Quality and Convenience

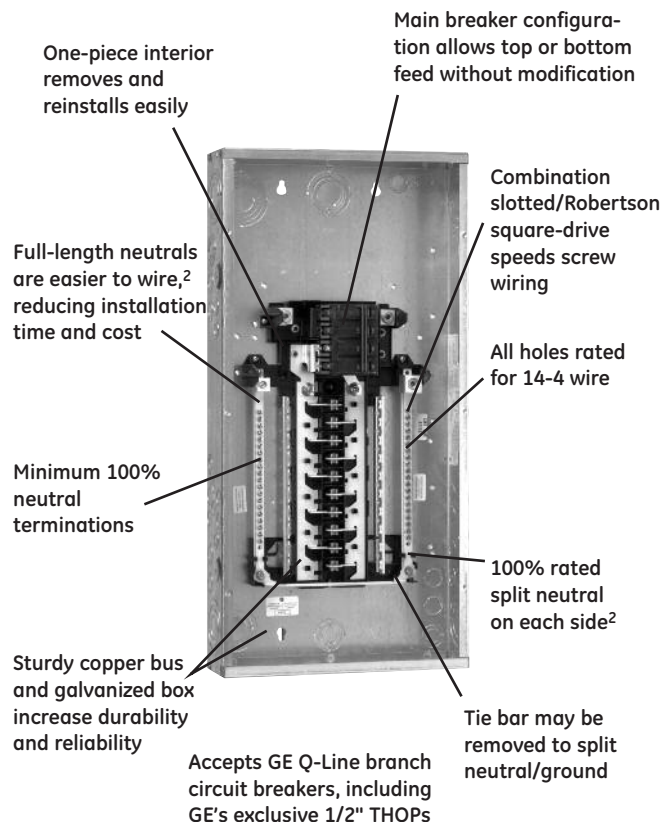
## Section 1

PowerMark Gold load centers lower your costs by making installation faster and easier, increasing application flexibility and reducing inventory requirements. At the same time, they deliver obvious and significant advances in design, function and quality.

- UL Listed (Panelboards No. 67)
- Service Barriers included for factory installed main circuit breaker and main circuit breaker kits (required to meet UL67 for service entrance applications)
- Suitable for Use as Service Entrance Equipment when installed in accordance with National Electrical Code
- 60°C/75°C Conductor Rating
- Single phase, 40-225A, 2-42 circuits
- Main lug models field convertible to main breaker
- Main breaker 22kAIC standard - factory installed
- All load centers top or bottom feed
- Indoor and outdoor rated enclosures
- Indoor fronts combination surface/flush
- Copper bus with tin plating standard<sup>1</sup>
- Split neutrals extend the full length of the interior for ease of wiring
- Entire main lug line converts easily to main breaker
- Combination surface/flush front with spring-reinforced pan
- Combination slotted/Robertson square-drive screws on neutral,<sup>2</sup> ground, front and breaker lugs
- Front packed in inner carton for added protection
- Field installable feed-through lugs up to 200A
- Straight-through main wiring
- Main breaker is clearly marked and circuit numbers are stamped on front
- Isolated ground bar is available
- Compact box maintains optimum wire-bending space

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

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



**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.**

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

**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.**

### Accessories and Options

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

<sup>1</sup>Three-phase PowerMark Plus load centers have aluminum bus with copper breaker mounting stabs.

<sup>2</sup>16 circuit and above.

### Safety accessories – convenient and easy to install

- THQLSURGE whole house surge protector
- Arc fault circuit interrupter breaker, 1- or 2-pole
- Ground fault circuit interrupter breaker, 5mA and 30mA
- Generator transfer panel – 30A or 60A, indoor or outdoor
- GE AC disconnects
- Service Barrier Kits



# Load Centers and Circuit Breakers

## PowerMark Gold and Plus Load Centers

Product Number Guides

## Section 1

### Product Number Guide for Load Centers

(Product number for illustrative purposes only)

	T	M	42	4	20	C	CU	B	
GE Identification									Insert for Specials
Type									G or T = Factory installed ground bar
M = Main breaker									B = Bottom feed main breaker
L = Main lug									FL = Factory installed feed-through lugs
LM = Convertible									D = Optional door for 6-8 circuit panel. (Doors standard on all units 12 circuits or greater)
PL = Main lug (Thermoplastic)									W = White Front
Maximum Number 1" Spaces									Insert for PowerMark Gold
2, 4, 6...42									CU = Copper Bus
									42 = Copper Bus Full 42 circuit panel
Insert for 3-Phase 4-Wire Load Centers									Enclosure Type
									C = Combination surface/flush
									F = Flush
									S = Surface
									R = Outdoor
									Bus Ampere Rating
									40 = 40 Amps      20 = 200 Amps
									70 = 70 Amps      22 = 225 Amps
									10 = 100 Amps
									12 = 125 Amps
									15 = 150 Amps

### Product Number Guide for Q-Line Plug-in Circuit Breakers

(Product number for illustrative purposes only)

	T	H	QL	1	1*	15	GFT	
GE Identification								Ground Fault/Arc Fault Circuit Interrupter
Interrupting Rating								AF2 = 1- & 2-pole Combination Arc Fault Circuit Interrupter
H = 10kAIC								GFEP = 1- & 2-pole Ground Fault with Equipment Protection Interrupter-30 mA
HH = 22kAIC								GFT = 1- & 2-pole Ground Fault with Self-Test Feature Interrupter - 5 mA
X = 65kAIC								DF = 1-pole Dual Function GFCI/AFCI Ground Fault & Combination Arc Fault Circuit Interrupter
Type								Ampere Rating
QL = 1" plug-in								
QP = 1/2" plug-in								
QB = 1" bolt-on								
Poles (1, 2, 3)								Voltage
								1 = 120/240V
								2 = 240V

\*Omit character for THQP breakers, which are all 120/240V.



# Load Centers and Circuit Breakers

## PowerMark Gold and Plus Load Centers

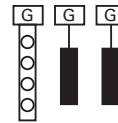
### Circuit Breakers

#### Wiring Diagrams

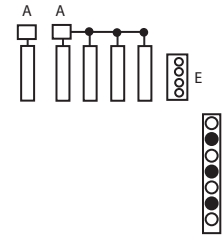
## Section 1

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
	1	—
	1	2

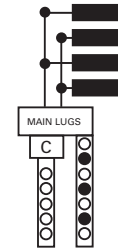
Terminal Symbol	Wire Range (AWG/kcmil)	
	Cu	Al
o	14-8	12-8
•	14-4	12-4
A	6-2	6-2
B	14-1/0	12-1/0
C	6-2/0	6-2/0
D	1-300	2/0-300
E	1-300	1-300
F	6-1	6-1
G	6-3	6-3 </td



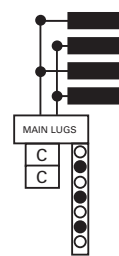
TL240SCU, RCU  
TL270SCU, RCU



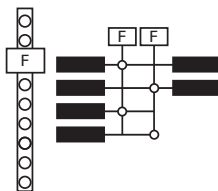
TL510RT



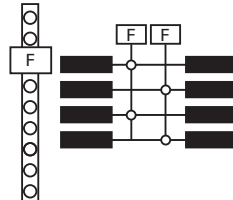
TPL412C, TL412C, TPL412R, TL412R1,  
TL412R2, TL412R250GF, TL412R260GF



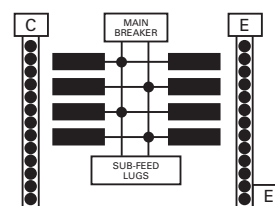
TPL412CT, TL412CT  
TPL412RT, TL412RT1



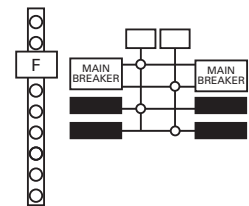
TLM612FCU, SCU  
FCUD, SCUD, RCU



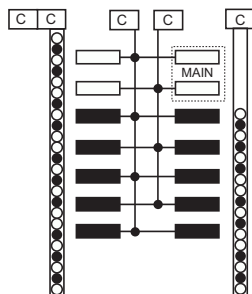
TLM812FCU, SCU,  
FCUD, SCUD, RCU



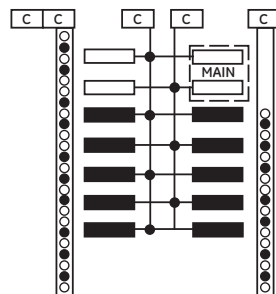
TM815RCUFL  
TM820RCUFL



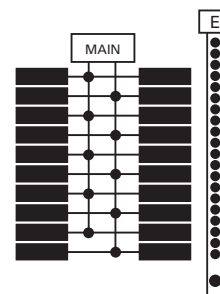
TM860FCUGEN, TLM830FCUGEN,  
TM860SCUGEN, TLM830SCUGEN,  
TM860RCUGEN, TLM830RCUGEN



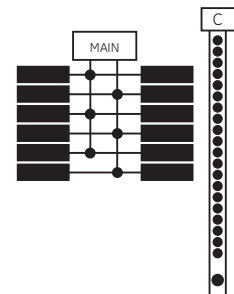
TM1210CCU, TM1212CCU, TLM1212CCU



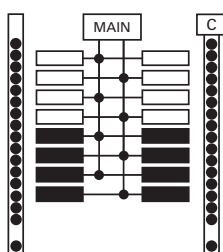
TM1210RCU, TM1212RCU, TLM1212RCU



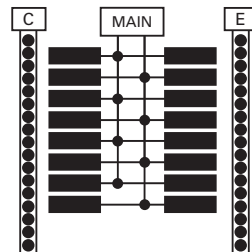
TLM2012CCURP



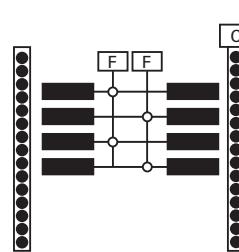
TLM1212CCURP



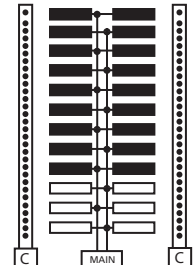
TLM1612CCU, TM1612CCU, TM1612RCU



TM1615CCU, TM1615RCU, TM1620CCU,  
TLM1620CCU, TLM1620RCU



TLM812RCU2



TM2420R42B

