

# Load Centers and Circuit Breakers

## PowerMark Gold and Plus Load Centers

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

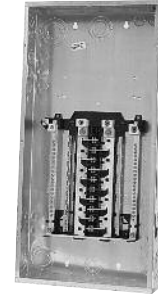
Main Lugs Convertible to Main Breaker

# Section 1

Load Center  
1PH  
Main Lug  
Indoor NEMA 1

### Product Features

- UL Listed (Panelboards No. 67)
- 60°/75°C Conductor Rating
- Suitable for Use as Service Entrance Equipment when Installed in Accordance with the National Electrical Code
- 22kAIC RMS symmetrical, Except Where Noted
- 6-42 circuit devices UL Listed for bottom mounted lugs by installing complete unit (box, interior and front) upside down.
- For a listing of CSA Listed load centers, visit geindustrial.com.



TLM2020CCU



TPL412R

### Main Lugs Factory Installed (TLM units convertible to main breaker), 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 <sup>1</sup>	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
40	2	1	4	1	4	Surface	Top Bottom	1A	14-4	TGK4 (order separately)	TL240SCU <sup>1,8</sup>
70	2	1	4	1	4	Surface	Top Bottom	1A	6-3	TGK4 (order separately)	TL270SCU <sup>1,8</sup>
125	4	2	8	3	8	Combination Flush/Surface	Top Bottom	2A	1-2/0	TGL1 (order separately)	TL412C <sup>1,2,8</sup>
125	4	2	8	3	8	Combination Flush/Surface	Top Bottom	2A	1-2/0	TGL1 installed	TL412CT <sup>1,2,3,8</sup>
125	4	2	8	3	8	Thermoplastic	Top Bottom	2	1-2/0	TGL1 (order separately)	TPL412C <sup>1,2,3,8</sup>
125	4	2	8	3	8	Thermoplastic	Top Bottom	2	1-2/0	TGL1 installed	TPL412CT <sup>1,2,3,8</sup>
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612FCU <sup>4,8</sup>
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612FCUD <sup>4,8</sup>
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 installed	TLM612FCUDG <sup>4,8</sup>
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612SCU <sup>4,8</sup>
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612SCUD <sup>4,8</sup>
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 installed	TLM612SCUDG <sup>4,8</sup>
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCU <sup>4,8</sup>
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCUD <sup>4,8</sup>
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCUDG <sup>4,8</sup>
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812SCU <sup>4,8</sup>
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812SCUD <sup>4,8</sup>
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 installed	TLM812SCUDG <sup>4,8</sup>
125	14	6	20	8	24	Combination Flush/Surface	Top Bottom	18	6-2/0	Included <sup>10</sup>	TLM1212CCU <sup>7,8</sup>
125	14	6	20	8	24	White Combo Flush/Surface	Top Bottom	18	6-2/0	Included <sup>10</sup>	TLM1212CCUW <sup>7,8,9</sup>

<sup>1</sup>No door

<sup>2</sup>10 kAIC

<sup>3</sup>125 amp maximum branch capacity.

<sup>4</sup>For main breaker, order THQLRK2 retainer kit plus 2-pole circuit breaker. See page 1-28, 100 amp max.

<sup>5</sup>For main breaker, order TQMH000. See page 1-24. Also order 2-pole THQL, THHQL, or TXQL circuit breaker. See page 1-5.

<sup>6</sup>For main breaker, order THQMVXXD circuit breaker from page 1-6.

<sup>7</sup>For main breaker applications, use reverse feed THQL breaker or THHQL circuit breaker (see page 1-5) and THQLRK3 breaker retainer (see page 1-28).

<sup>8</sup>No lock provision available. Use next size larger load center such as TLM1612CCU with a TDL106 accessory if locking provision is required.

<sup>9</sup>Minimum order QTY is 40 for below 24 circuits; QTY 24 for 24 circuits and above. (See DEE-590)

<sup>10</sup>Load center includes a factory installed ground bar and add-a-lug. See wiring diagram on page 1-31. A separate TGL2 can be added in the unlikely event that another ground bar is required.

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## PowerMark Gold and Plus Load Centers

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

Main Lugs Convertible to Main Breaker

# Section 1

Load Center  
1PH  
Main Lug  
Outdoor NEMA 3R

### Main Lugs Factory Installed (TLM units convertible to main breaker), Outdoor (NEMA 3R) Enclosure<sup>1</sup>

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 <sup>1</sup> Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
40	2	1	4	1	4		Top	R1A	14-4	TGK4 (order separately)	TL240RCU
70	2	1	4	1	4		Top	R1A	6-3	TGK4 (order separately)	TL270RCU
100	5	0	0	0	5	Flush	Top	R41	6-3	TGL1 installed	TL510RT <sup>2,8</sup>
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 (order separately)	TL412R1 <sup>2</sup>
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 installed	TL412RT1 <sup>2</sup>
125	4	2	8	3	8		Top	R41	1-2/0	TGL1 (order separately)	TL412R2 <sup>2</sup>
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 (order separately)	TPL412R <sup>2,3</sup>
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 installed	TPL412RT <sup>2,3</sup>
125	6	2	12	4	12		Top	R2A	6-1	TGL2 (order separately)	TLM612RCU <sup>4</sup>
125	8	4	16	8	16		Top	R2A	6-1	TGL2 (order separately)	TLM812RCU <sup>4</sup>
125	8	4	16	8	16		Top	R3A	6-1	TGL2 (order separately)	TLM812RCU2 <sup>5</sup>
125	14	6	20	8	24		Top	R3A	6-2/0	Included	TLM1212RCU <sup>7,9</sup>
125	24	12	0	0	24		Top	R4A	6-2/0	TGK24 (order separately)	TLM2412RCU <sup>5</sup>
							Bottom			TGK32 (order separately)	
150	24	12	12	4	30		Top	R6A	1-3/0 (Cu), 2/0-3/0 (Al)	TGK24 (order separately) TGK32 (order separately)	TLM2415RCU <sup>6</sup>
200	12	6	24	10	24		Top	R5A	6-250	TGK24 (order separately)	TLM1220RCU <sup>6</sup>
200	16	8	32	14	32		Top	R5A	6-250	TGK32 (order separately)	TLM1620RCU <sup>6</sup>
200	20	10	40	18	40		Top	R6A	6-250	TGK24 (order separately)	TLM2020RCU <sup>6</sup>
							Bottom			TGK42 (order separately)	
200	24	12	36	18	42		Top	R39	1-250 (Cu), 2/0-250 (Al)	TGK24 (order separately)	TLM2420R42
200	32	16	16	6	40		Top	R7A	1-250 (Cu), 2/0-250 (Al)	TGK32 (order separately)	TLM3220RCU <sup>6</sup>
							Bottom				
200	40	20	0	0	40		Top	R8A	6-250	TGK42 (order separately)	TLM4020RCU <sup>6</sup>
							Bottom				
225	42	20	0	0	42		Top	R8A	1-300 (Cu), 2/0-300 (Al)	TGK42 (order separately)	TLM4222RCU <sup>6</sup>
							Bottom				

<sup>1</sup>40-225 amp single-phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately. See page 1-27.

<sup>2</sup>10 KAIC.

<sup>3</sup>125 amp maximum branch capacity.

<sup>4</sup>For main breaker, order THQLRK2 retainer kit plus 2-pole circuit breaker. See page 1-28, 100 amp maximum due to wire bending requirements.

<sup>5</sup>For main breaker, order TQMH000. See page 1-24. Also order 2-pole THQL or THHQL circuit breaker. See page 1-5.

<sup>6</sup>For main breaker, order THQMVXXXD circuit breaker from page 1-6.

<sup>7</sup>For main breaker applications, use reverse feed THQL or THHQL circuit breaker (see page 1-5) and THQLRK3 breaker retainer (see page 1-28).

<sup>8</sup>Main and branch breakers are limited to 70 amps.

<sup>9</sup>Load center includes a factory installed ground bar and add-a-lug. See wiring diagram on page 1-31. A separate TGL2 can be added in the unlikely event that another ground bar is required.

**Note:** See page 11-4, AL Series Lighting Panelboards as replacements for 300-600A load centers.

# Load Centers and Circuit Breakers

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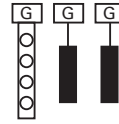
### Circuit Breakers

# Section 1

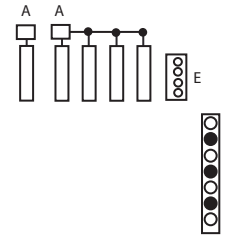
### Wiring Diagrams

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

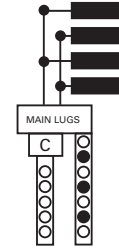
Terminal Symbol	Wire Range (AWG/kcmil)	
	Cu	Al
o	14-8	12-8
•	14-4	12-4
A	6-2	6-2
B	14-1/0	12-1/0
C	6-2/0	6-2/0
D	1-300	2/0-300
E	1-300	1-300
F	6-1	6-1
G	6-3	6-3



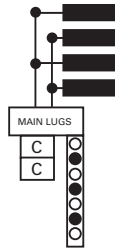
TL240SCU, RCU  
TL270SCU, RCU



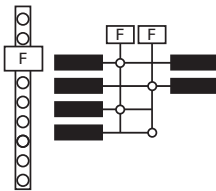
TL510RT



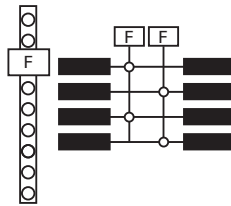
TPL412C, TL412C, TPL412R, TL412R1,  
TL412R2, TL412R250GF, TL412R260GF



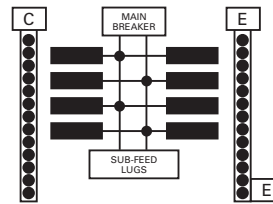
TPL412CT, TL412CT  
TPL412RT, TL412RT1



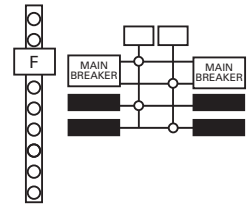
TLM612FCU, SCU  
FCUD, SCUD, RCU



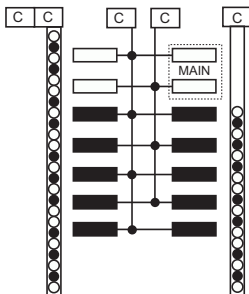
TLM812FCU, SCU,  
FCUD, SCUD, RCU



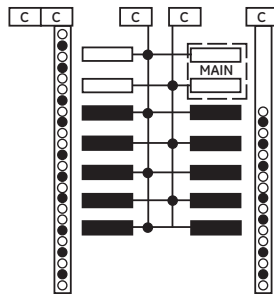
TM815RCUFL  
TM820RCUFL



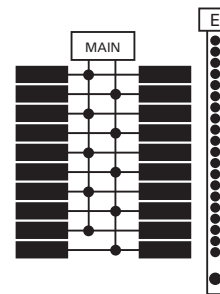
TM860FCUGEN, TLM830FCUGEN,  
TM860SCUGEN, TLM830SCUGEN,  
TM860RCUGEN, TLM830RCUGEN



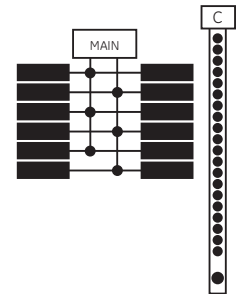
TM1210CCU, TM1212CCU, TLM1212CCU



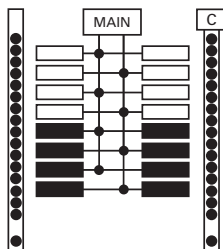
TM1210RCU, TM1212RCU, TLM1212RCU



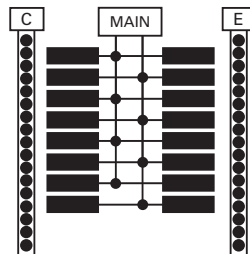
TLM2012CCURP



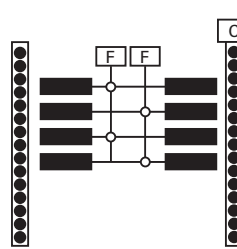
TLM1212CCURP



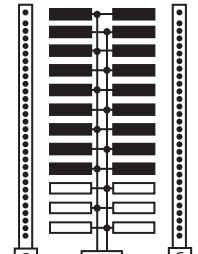
TLM1612CCU, TM1612CCU, TM1612RCU



TM1615CCU, TM1615RCU, TM1620CCU,  
TLM1620CCU, TLM1620RCU



TLM812RCU2



TM2420R42B