

# KVAR EC® Panel Unit Technical Specifications

## Single-Phase Panel Units



### **PU-1050SP3, PU-1050, PU-1200**

Panel mount units for Power Factor (PF) correction of Single-Phase electrical distribution systems where individual motor loads are impractical to optimize individually.

- Up to 240 volt AC service, 50/60 Hz
- Enclosure dimensions 6"x 6"x 4" (HxWxD)
- Weight: 6-lbs
- Power indicator light
- No fuses: Must be installed across a solely dedicated 20-Amp double-pole, single-pull circuit breaker.

### **PU-1400**

For Single-Phase panels servicing heavier inductive loads.

- Up to 480 volt AC service, 50/60 Hz
- Enclosure: 10"x 8"x 4" (HxWxD)
- Weight: 10-lbs
- Blown fuse indicator light
- Fuse size based upon NEC specifications using dual element time delay fuses.



## Three-Phase Panel Units



### **PU-3100, PU-3200**

Panel mount units for PF correction of Three-Phase electrical distribution systems where individual motor loads are impractical to optimize individually.

- Up to 480 volt AC service, 50/60 Hz
- Enclosure dimensions 8"x 8"x 4" (PU-3100); Weight: 9-lbs (PU-3100)
- PU-3200: 10"x 8"x 4"; Weight: 10-lbs
- Blown fuse indicator light
- Fuse size based upon National Electric Code (NEC) specifications dual element time delay fuses.

### **PU-3400**

For 3-Phase panels servicing heavier inductive loads.

- Up to 480 volt AC service, 50/60 Hz
- Enclosure: 10"x 12" x 6.5" (HxWxD)
- Weight: 22-lbs
- Blown fuse indicator light
- Fuses based upon NEC specifications using dual element time delay fuses.

- KVAR Energy Controller (KVAR EC®) Single-Phase and Three-Phase Industrial, Commercial, and Residential Panel Units are UL listed, CSA certified, RoHS compliant and contain no PCBs.
- Arc-Fault Circuit-Interrupter (AFCI) protected to 10,000 degrees Fahrenheit.
- Contained within a NEMA 3R enclosure suitable for indoor and outdoor use.
- Operational in temperature ranges from -40 to 70 degrees Celsius.
- All KVAR EC® panel units contain bleed resistors to drop voltage to 50VDC or less within one-minute of disconnecting from power source.
- Single-Phase and Three-Phase KVAR EC® Panel Units are also available for operation at up to 600 volts via special order.

KVAR Three-Phase Panel Units	Amperage range			KVAR Range		
	208 Volts	480 Volts	600 Volts	208 Volts	480 Volts	600 Volts
<b>PU-3400</b>	16.30	37.61	47.01	5.87	31.27	48.86
<b>PU-3100, PU-3200</b>	9.51	21.94	27.42	3.43	18.24	28.50

  

KVAR Single-Phase Panel Units	Amperage range			KVAR Range		
	110 Volts	240 Volts	277 Volts	110 Votes	240 Volts	277 Volts
<b>PU-1400</b>	5.80	12.67	14.62	0.64	3.04	4.05
<b>PU-1050, PU-1200</b>	2.99	6.51	7.52	0.33	1.56	2.08
<b>PU-1050SP3</b>	1.74	3.80	4.39	0.19	0.91	1.21

# KVAR Custom-Sized Unit Technical Specifications

## Single-Phase Sizing Unit



### US-1

Custom sizing apparatus, specifically designed for Power Factor (PF) optimization of individual large single-phase inductive motor load applications and electrical distribution system panels.

The KVAR US-1 sizing unit will simulate thirty-one (31) custom PF optimization units for customization of individual single-phase motor loads and panels.

- Up to 480 volt AC service, 50/60 Hz
- Fuse size based upon National Electric Code (NEC) specifications using time delay dual element fuses.
- Enclosure dimensions from 8" x 6" x 4" to 12" x 16" x 6.5" (HxWxD)
- Weight: 6-lbs to 24-lbs
- KVAR EC® Single-Phase and Three-Phase Custom-Sized Units are UL listed, CSA certified, RoHS compliant and contain no PCBs.
- Arc-Fault Circuit-Interrupter (AFCI) protected to 10,000 degrees Fahrenheit.
- Contained within a NEMA 3R enclosure suitable for indoor and outdoor use.
- Operational in temperature ranges from -40 to 70 degrees Celsius.
- All KVAR EC® custom-sized units contain bleed resistors to drop voltage to 50VDC or less within one-minute of disconnecting from power source.
- Single-Phase and Three-Phase KVAR EC® Custom-Sized Units are also available for operation at up to 600 volts via special order.

## Three-Phase Sizing Unit



### US-2 and US-3

Custom sizing apparatus, specifically designed for PF optimization of individual large three-phase inductive motor load applications and electrical distribution system panels.

Each KVAR US-2 and US-3 sizing unit will simulate thirty-one (31) custom PF optimization units for customization of individual three-phase motor loads and panels.

- Up to 480 volt AC service, 50/60 Hz
- Fuse size based upon National Electric Code (NEC) specifications using time delay dual element fuses.
- Enclosure dimensions from 8" x 6" x 4" to 12" x 16" x 6.5" (HxWxD)
- Weight: 8-lbs to 38-lbs

KVAR Three-Phase Custom Units	Amperage range			KVAR Range		
	208 Volts	480 Volts	600 Volts	208 Volts	480 Volts	600 Volts
US-3 Series	2.04-30.56	4.70-70.52	5.88-88.15	0.73-11.01	3.91-56.63	6.11-91.61
US-2 Series	0.81-24.58	1.88-56.73	2.35-88.15	0.29-8.86	1.56-47.16	2.44-73.69
KVAR Single-Phase Custom Units	Amperage range			KVAR Range		
	110 Volts	240 Volts	277 Volts	110 Votes	240 Volts	277 Volts
US-1 Series	0.50-15.01	1.09-32.75	1.25-37.80	0.05-1.65	0.26-7.86	0.35-10.47

