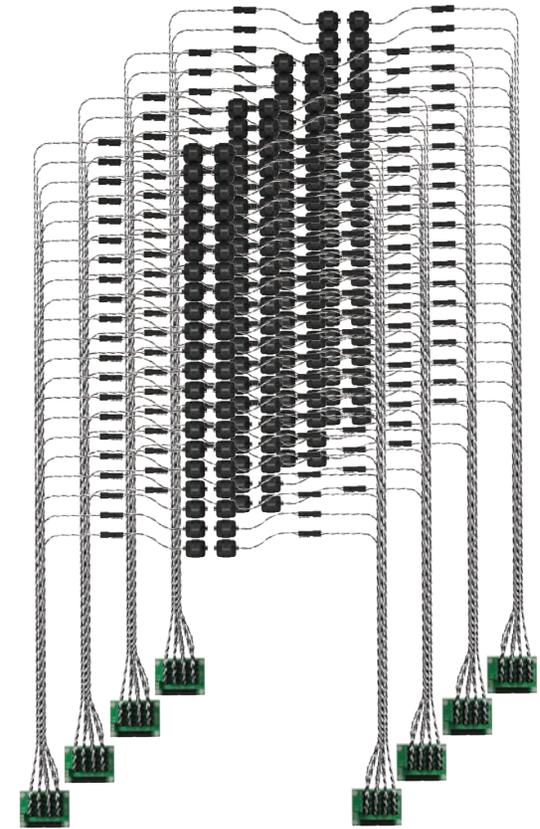
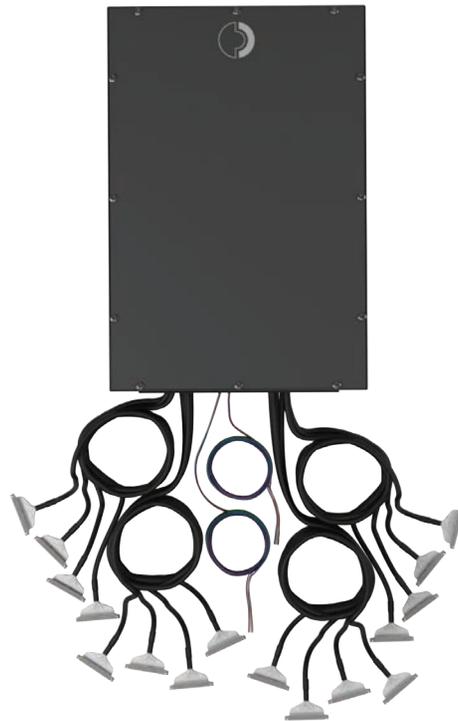
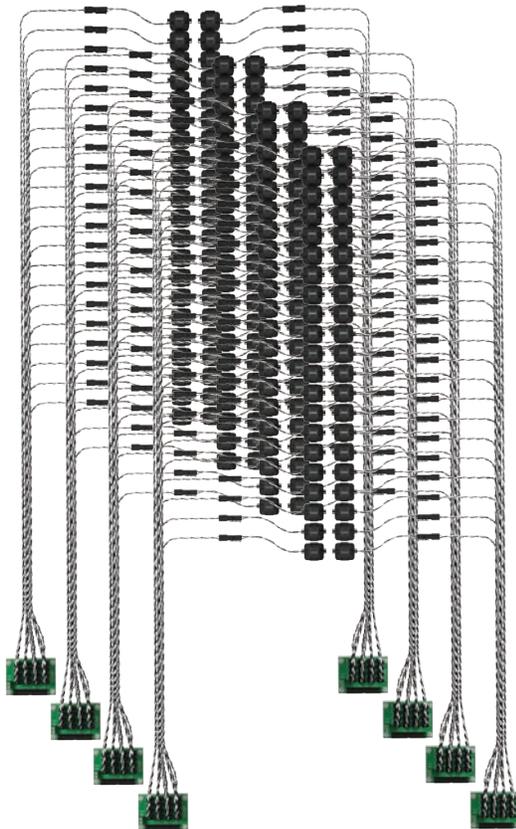
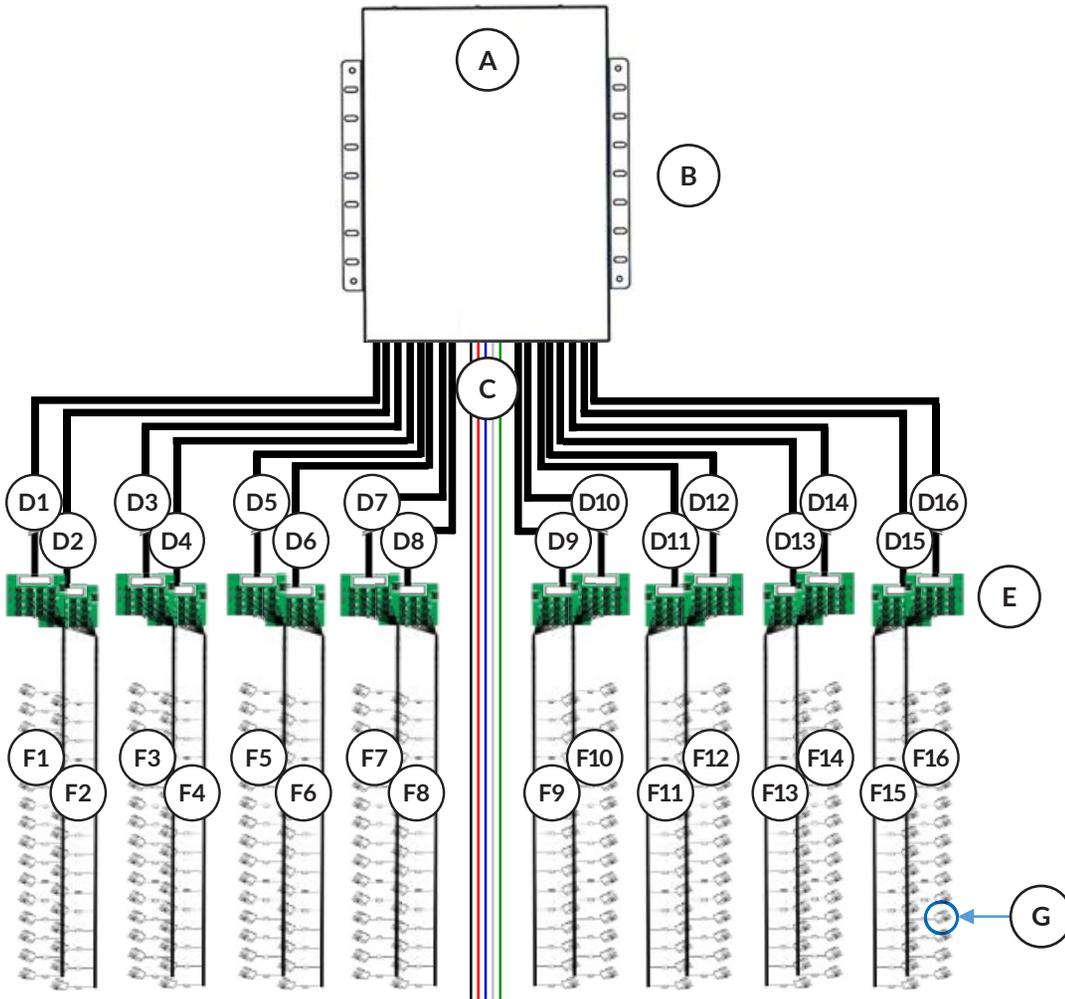


BGP192 Model Components and *Monitoring Made to Measure* Specifications



BRANCH CIRCUIT MONITOR COMPONENTS

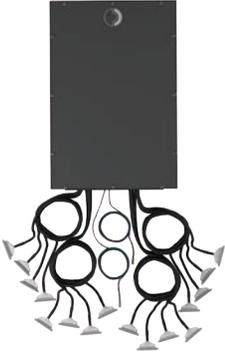
Packet Power's BGP192 wireless branch circuit monitor arrives fully configured to each customer's needs and includes the following components.



BGP192 COMPONENTS

- (A) Device: Up to 24 wireless power monitors in an 18 GA steel enclosure with plastic front 445 x 302 x 115 mm (17.5 x 11.9 x 4.5 in)
- (B) Mounting Brackets: Two optional 18 GA steel brackets 305 x 25 mm (12 x 1 in)
- (C) Voltage Lead(s): 18 AWG 600V colored wire connected to a 6-position terminal block, 3m or 7m length; 5x20 mm 5A inline fuses on L1, L2, L3 Optional 2nd voltage lead for dual feeds
- (D) CT Interconnect Cables: Up to sixteen shielded 300V cords in any mix of 1-5m lengths; terminate in a 34-pin connector that fastens to the CT Interconnect Board
- (E) CT Interconnect Boards: Up to sixteen 72 x 53 x 6.3 mm (2.8 x 2.1 x 0.2 in) acrylic-backed boards with VHB adhesive tape for mounting
- (F) Branch Circuit CT: Wire Harnesses: Up to sixteen CT harnesses; 24 AWG 300V twisted pair wire; length varies by harness configuration (see page 4 for options)
- (G) Branch Circuit CTs: Up to 192 split core CTs
 Inside diameter: 10mm
 Outside dimensions: 39 x 23 x 26 mm
 CT tail: 100 mm (4 in) to quick disconnect
 Rated amperage: 15A, 30A or 50A
- Infeed Circuit CTs: (Not shown) Up to 6 split core CTs;
 Rated amperage: 100A to 400A;
 Inside diameter and outside dimensions vary by amperage (see page 5 for options)
 Leads: 24 AWG 600V twisted pair with quick disconnects; 0.5-5m length from CT Interconnect Boards

MODELS

	Model	Maximum Full Power CTs	CT Interconnect Boards & Cables	Voltage Options
<p>BGP192-192 pictured</p>	BGP192-144	144	9 - 12	120-240V AC 1Φ (LN) 200-230V AC 1Φ (LL) 277V AC 1Φ (LN) 200-230V AC Delta (LLL) 208/120V AC Wye
	BGP192-192	192	12 - 16	240/120V AC Split (LLN) 415/240V AC Wye 480/277V AC Wye 50/60 Hz Frequency

TECHNICAL SPECIFICATIONS

Measurements	V, A, VA, W, Wh, Power Factor, Hz Accuracy: +1.0%
Fusing	Optional inline 5A fuses
Current Range	Branch circuits: 15A, 30A, 50A Infeed circuits: 100A to 400A
Frequency	50/60 Hz
Monitor Dimensions	445 x 302 x 115 mm (17.5 x 11.9 x 4.5 in)
Monitor Weight	8.6 kg (19 lb)
Mounting	On wall or on device; mounting brackets included
Available Wire Exits	Side, Bottom or Back openings
Voltage Lead Wire	18 AWG 600V colored wire; 3m or 7m length
CT Interconnect Board Cable (from BGP192 to Interconnect Board)	Shielded 300V cord; 1-5m length
Infeed Circuit CT Leads	24 AWG 600V twisted pair; quick disconnect; 0.5 - 5m length
Operating Environment	0° to 75°C (32° to 167°F); 5% to 95% non-condensing
Water and Dust Resistance	NEMA 1/IP20 (indoor use)
Power Usage	14-20W
Wireless Network Protocol	Frequency hopping self-configuring load-balancing mesh; Operating frequency 860 to 930 MHz and 2.4 GHz (frequencies vary by region)
Wired Network Protocols	HTTPS to Packet Power EMX running locally or as cloud service; SNMP V1/V2c/V3; Modbus TCP/IP; Ethernet/IP; MTConnect; BACnet/IP; MQTT
Firmware Updates	Wireless
Typical Transmission Range	10 to 30 meters indoors between any two devices in mesh network
Antenna	Fully enclosed, fixed configuration
Monitor to Gateway Ratio	Up to 4 BGP192-192 devices per Ethernet Gateway with unlimited Gateways per site
Local Display	Presence of power only, details available via Gateway console
Made in USA	Yes
Product Warranty	1 year
Certifications	UL 508A and CE, FCC and other country communications standards

MONITORING MADE TO MEASURE

“Monitoring made to measure” means we fully configure each power monitor to meet your exact needs.

Here’s what we need to know to cut your installation time in half.

- Voltage input service type (source power)
- Number of branch circuits (CTs) you want to monitor
- Branch circuit CT amperage
- If you want to monitor panel infeed circuits, what’s the infeed circuit amperage
- Desired wire exit location
- Need for inline fuses on the voltage lead
- Length of the cables to the CT interconnect board
- Placement of CT wire harnesses in relation to your panel (CT harness type)

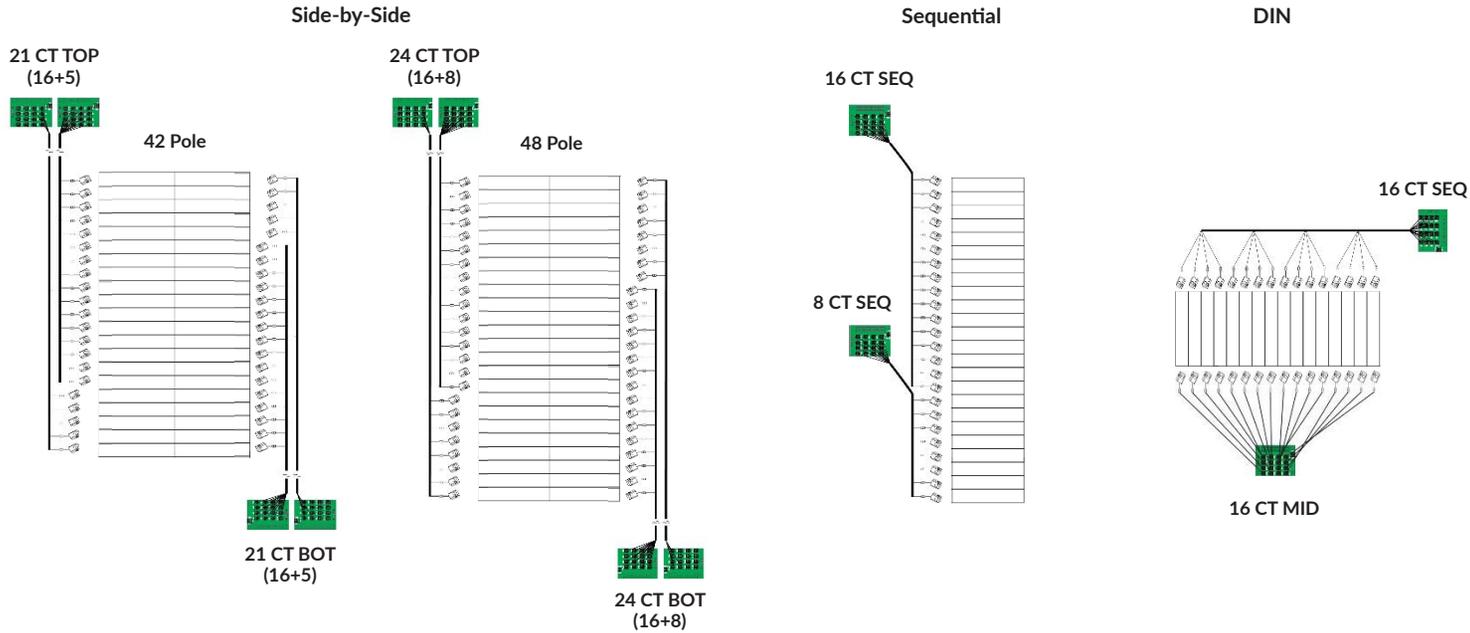
Use the Configuration worksheet on page 5 to capture your needs.

Contact sales@packetpower.com with questions or if you need a different option than outlined in the rest of this document.

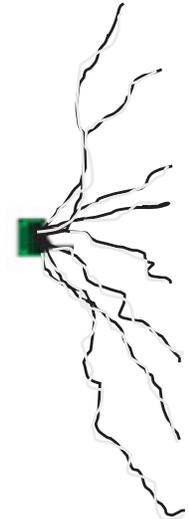
CT LEAD WIRE OPTIONS

The BGP192 supports flexible, preconfigured CT wire harnesses as well as loose CT leads at a variety of lengths. Any infeed CT leads attach to Interconnect Boards.

Wire Harnesses



Loose Leads



Wire Harness Type	21 CT TOP	21 CT BOT	24 CT TOP	24 CT BOT	16 CT SEQ	8 CT SEQ	16 CT MID
# CTs	21	21	24	24	16	8	16
Length to 1st CT	495 mm	495 MM	521 mm				
1st CT number	1 / 2	41 / 42	1 / 2	47 / 48	1	1	1
Length to last CT	1003 mm	1003 mm	1080 mm	1080 mm	876 mm	673 mm	521 mm
Last CT number	41 / 42	1 / 2	47 / 48	1 / 2	16	8	16
# CT Interconnect Boards & Interconnect Cables	1	1	1	1	1	1	1

Wire Harness Specifications	24 AWG 300V twisted pair wire with quick disconnects
	Wire lengths and lead labels vary by harness type
	Accommodates side-by-side, inline or DIN mount panels with 25 mm (1") center-to-center breakers

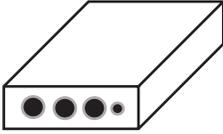
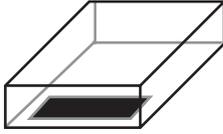
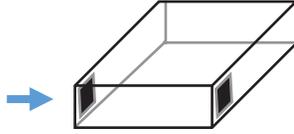
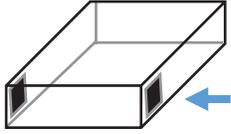
Lead Wire Specifications
24 AWG 600V twisted pair wire with quick disconnects
0.5m, 1m, 1.5m, 2m, 3m or 5m lengths available

DESIGN YOUR BGP192 BRANCH CIRCUIT MONITOR

Customer _____

Panel _____

Qty _____

Maximum Full Power CTs	Wire Exit		
<input type="checkbox"/> 144 <input type="checkbox"/> 192	 <p><input type="checkbox"/> Bottom Conduit Plate 3 x 1.75" [44 mm] knockouts 1 x 0.875" [22 mm] knockout</p>	 <p><input type="checkbox"/> Back Opening 3.14 x 2.00" [80 x 51 mm] opening</p>	 <p><input type="checkbox"/> Left Side Opening 3.14 x 2.00" [80 x 51 mm] opening</p>
			 <p><input type="checkbox"/> Right Side Opening 1.875 x 3.75" [48 x 95 mm] opening</p>

Voltage Source 1	Voltage Source 2	CT Interconnect Cable Length	CT Harness Type
<input type="checkbox"/> 100-220V AC 1 Phase (2-wire LN + E) <input type="checkbox"/> 230-240V AC 1 Phase (2-wire LL + E) <input type="checkbox"/> 277V AC 1 Phase (2-wire LN + E) <input type="checkbox"/> 200-240V AC Delta (3-wire LLL + E) <input type="checkbox"/> 240/120V AC Split (3-wire LLN + E) <input type="checkbox"/> 208/120V AC Wye (4-wire + E) <input type="checkbox"/> 415/240V AC Wye (4-wire + E) <input type="checkbox"/> 480/277V AC Wye (4-wire + E)	<input type="checkbox"/> None <input type="checkbox"/> 100-220V AC 1 Phase (2-wire LN + E) <input type="checkbox"/> 230-240V AC 1 Phase (2-wire LL + E) <input type="checkbox"/> 277V AC 1 Phase (2-wire LN + E) <input type="checkbox"/> 200-240V AC Delta (3-wire LLN + E) <input type="checkbox"/> 240/120V AC Split (3-wire LLN + E) <input type="checkbox"/> 208/120V AC Wye (4-wire + E) <input type="checkbox"/> 415/240V AC Wye (4-wire + E) <input type="checkbox"/> 480/277V AC Wye (4-wire + E)	See page 3 for number of cables per BGP192 model Length: Apply to: 1m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ 1.5m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ 2m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ 3m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ 5m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ ____ m <input type="checkbox"/> All <input type="checkbox"/> Cable #s: _____ Reference D1 - D16 on page 2	See page 4 for Harness options 1 (F1) _____ 9 (F9) _____ 2 (F2) _____ 10 (F10) _____ 3 (F3) _____ 11 (F11) _____ 4 (F4) _____ 12 (F12) _____ 5 (F5) _____ 13 (F13) _____ 6 (F6) _____ 14 (F14) _____ 7 (F7) _____ 15 (F15) _____ 8 (F8) _____ 16 (F16) _____ Reference F1 - F16 on page 2
V1 Lead Length: <input type="checkbox"/> 3m <input type="checkbox"/> 7m <input type="checkbox"/> _____ m <input type="checkbox"/> None Fusing: <input type="checkbox"/> Fused <input type="checkbox"/> Not Fused Meters Powered <input type="checkbox"/> All Meters: _____	V2 Lead Length: <input type="checkbox"/> 3m <input type="checkbox"/> 7m <input type="checkbox"/> _____ m <input type="checkbox"/> None Fusing: <input type="checkbox"/> Fused <input type="checkbox"/> Not Fused Meters Powered Meters: _____		

Branch Circuit Split Core CTs				
Qty	Rated / Max Amperage	Inside Diameter	External Dimensions (H x W x D)	CT Tail
	<input type="checkbox"/> 15A / 18A	10 mm	39 x 23 x 26 mm	100 mm
	<input type="checkbox"/> 30A / 36A			
	<input type="checkbox"/> 50A / 63A			

Infeed Circuit Split Core CTs <input type="checkbox"/> Not Applicable					
Qty	Rated / Max Amperage	Inside Diameter	External Dimensions (H x W x D)	CT Tail	CT Lead Length (CT Interconnect Board to circuit)
	100A / 120A	<input type="checkbox"/> 16 mm	44 x 31 x 33 mm	500 mm	<input type="checkbox"/> 0.5 meter <input type="checkbox"/> 1 meter <input type="checkbox"/> 1.5 meters <input type="checkbox"/> 2 meters <input type="checkbox"/> 3 meters <input type="checkbox"/> 5 meters <input type="checkbox"/> _____ meters
		<input type="checkbox"/> 24 mm	65 x 46 x 35 mm		
	200A / 240A	<input type="checkbox"/> 24 mm	65 x 46 x 35 mm		
		<input type="checkbox"/> 36 mm	85 x 37 x 42 mm		
	400A / 480A	<input type="checkbox"/> 36 mm	85 x 37 x 42 mm		
		<input type="checkbox"/> 50 x 50 mm	125 x 120 x 30 mm		
	<input type="checkbox"/> _____ A	_____ mm			



