

Galaxy PW

100, 130, 150, 180, 200, 225 KVA

Next Generation Critical Power Protection System



Advanced Features

- ▶ 0.9 Output Power Factor
- ▶ Modular Design for Easy Upgrading or Expansion
- ▶ Parallel Modules for Capacity or Redundancy
- ▶ Field Upgradeable Power Output**
- ▶ Low kVAR Input Filter
- ▶ Generator Friendly for Low UPS to Generator Sizing Ratios
- ▶ Proven Reliability in over 5,000 Installations
- ▶ Advanced Battery Management System with Automatic Self Testing
- ▶ Front Access Design
- ▶ Small Footprint/Very High Power Density
- ▶ Simple, Secure and Easy to Read Operator Interface
- ▶ Backed by MGE's 700 Field Service Engineers

** on 100-200 kVA modules

After considerable success worldwide, MGE is pleased to introduce the GalaxyPW for the North American market. The GalaxyPW's popularity is not only due to its exceptional reliability track record but also due to its modular design that permits the paralleling of modules for capacity or redundancy without extra paralleling gear. The GalaxyPW can also be field upgraded up to 225 KVA addressing smaller increases in power requirements without incurring the cost of another UPS module. Providing up to 225 kVA/200 kW in a space saving 11 square feet, the GalaxyPW has one of the highest power densities available complimented by a 0.9+ output factor to perfectly match load profiles.

Built on the reliability of the original GalaxyPW, the next generation PW offers improvements including generator friendly topology to avoid excessive generator over-sizing requirements. Other notable features include a user friendly operator interface, high energy efficiency, and advanced battery management system with automated self testing, alerting you to battery performance issues before they have a chance to affect UPS reliability.

Installed in over 5000 critical applications, the GalaxyPW is the right choice for your power protection needs.

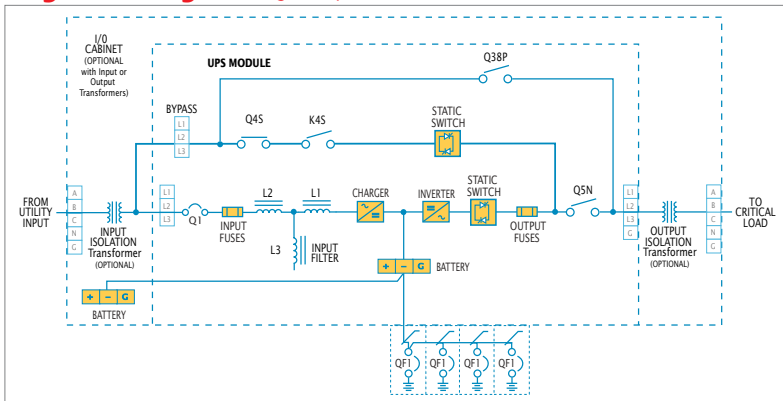
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UPS SYSTEMS

UPS Module Specifications

	100 kVA				130 kVA				150 kVA			
Input Voltage (V)	208	480	480	600	208	480	480	600	208	480	480	600
Output Voltage (V)	208	208	480	600	208	208	480	600	208	208	480	600
Nominal Input Current (A)	311	135	135	108	414	180	180	144	483	210	210	168
Maximum Input Current (A)	343	149	149	119	455	198	198	158	531	231	231	185
Nominal Output Current (A)	278	279	121	97	361	361	157	126	416	418	181	145
DC Current at Nominal Voltage (A)		219				283				331		
Efficiency at 100%		93%				93%				93%		
Full Load Heat Rejection (BTUs)		25600				29700				32800		
UPS Module Weight (lbs)		3050*				3050*				3050*		
Module Width (75"H x 33"D)		48"				48"				48"		
	180 kVA				200 kVA				225 kVA			
Input Voltage (V)	208	480	480	600	208	480	480	600	208	480	480	600
Output Voltage (V)	208	208	480	600	208	208	480	600	208	208	480	600
Nominal Input Current (A)	600	260	260	208	692	300	300	240	692	300	300	240
Maximum Input Current (A)	660	286	286	229	738	320	320	256	738	320	320	256
Nominal Output Current (A)	501	501	217	174	556	556	241	217	625	625	271	217
DC Current at Nominal Voltage (A)		392				438				442		
Efficiency at 100%		93%				93.5%				93.5%		
Full Load Heat Rejection (BTUs)		39200				47400				53200		
UPS Module Weight (lbs)		3050*				3050*				3050*		
Module Width (75"H x 33"D)		48"				48"				48"		

*UPS module only—does not include transformer and auxiliary cabinets

Single Line Diagram (single and parallel models)



Galaxy PW Battery Systems ~ Backup time in minutes at 100% load

Qty. Cabinets	Weight (lbs)	100 kVA		130 kVA		150 kVA		180 kVA		200 kVA		225 kVA		CB Rating
		0.8 PF	0.9 PF	0.8 PF	0.9 PF	0.8 PF	0.9 PF	0.8 PF	0.9 PF	0.8 PF	0.9 PF	0.8 PF	0.9 PF	
1	3,070	10	8	7	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	250 A
2	6,140	30	26	22	17	16	13	12	10	10	8	8	6	250 A
3	9,210	50	44	35	30	30	25	22	19	20	17	16	13	250 A
4	12,280	75	64	50	44	41	36	35	30	30	26	26	21	250 A
1	3,734	17	14	11	9	9	7	6	n/a	5	n/a	n/a	n/a	250 A
2	7,468	41	35	30	26	25	22	20	17	17	14	14	12	250 A
3	11,202	74	62	50	43	42	37	33	28	30	26	24	22	250 A
4	14,936	105	93	75	64	60	53	48	42	42	37	36	33	250 A
1	4,770	23	19	15	12	12	9	8	5	6	n/a	n/a	n/a	400 A
2	9,540	59	52	42	36	36	31	28	23	24	20	19	16	400 A
3	14,310	100	87	74	61	59	52	46	41	41	35	37	31	400 A
4	19,080	135	120	100	88	85	74	68	59	60	52	51	44	400 A

Battery System Features

- Individual cabinet dimensions: 75 "Hx50 "Wx33 "D
- All cabinets have a standard internal battery disconnect
- Cabinets may be ordered adjacent to the UPS or remote available upon request
- Run time specifications are for 77 F/25 °C and may differ with temperature
- Longer duration battery banks and wet cell batteries are available on request
- Above battery systems are housed in a matching enclosure
- All batteries specified above are sealed, low maintenance cells

Standard Features

- IGBT/PWM Inverter
- Low KVAR Input Filter
- LED Mimic Diagram
- Guided Operator Interface
- Advanced Battery Management System
- Modular Power Assemblies
- Front Access Design
- Computer Aided Self Diagnostics
- RS2323/485 Serial Interface
- Dry Contact Relay Status Array
- Top to Bottom Access Models

AC Electrical Characteristics

- Output Power Factor: ≥ 0.9
- Input Source: 208, 480, 600VAC 3PH, 3W + G (or 4W + G for Bypass)
- Output: 208, 480, 600VAC 3PH, 3W + G, or 4W + G
- Input Frequency Window: 60Hz/± 10%
- Inverter Sync. to Bypass: ± 0.5 Hz (adjustable from ± 0.25 Hz to ± 2 Hz)
- Input THDI: < 7% at 225 kVA
- Voltage Transient Response (at 100% Step Load): $\pm 2\%$
- Inverter Overload Capacity (A): 150% for 1 min.; 125% for 10 min.
- Bypass Instant Overload (1 cycle): 22 times nominal current
- THDV (linear loads): < 1.5% Ph/Ph, < 2.0% Ph/N
- THDV (non-linear loads): < 2.0% Ph/Ph, < 3.0% Ph/N
- Input Switch Q1: 400 A
- Bypass Input Contactor: 265 A (350 IEC)
- Bypass Switch(es) Q4S/Q38P/Q5N: 400A

DC Electrical Characteristics

- DC Nominal Voltage: 480 VDC
- Max. DC Float Voltage: 545 VDC
- Min. DC Cut-Off Voltage: 390 VDC

Environmental Characteristics

- Storage Temperature Range: - 25°C to +70°C
- Operating Temperature Range: 0°C to 40°C
- Relative Humidity: 95% maximum
- Noise Level (dBA): 68

MGE UPS SYSTEMS

THE UNINTERRUPTIBLE POWER PROVIDER

USA (headquarters)
1660 Scenic Avenue
Costa Mesa, CA 92626
tel (800) 523-0142
(714) 557-1636
fax (714) 557-9788

CANADA
#9, 2798 Thamesgate Dr.
Mississauga, ON L4T 4E8
tel (905) 672-0990
(877) 672-0990
fax (905) 672-7667

ARGENTINA
Thames 91
1609 San Isidro
Prov de Buenos Aires
tel (54) 11-4766-8777
fax (54) 11-4766-6008

BRAZIL
Avenida Guido
Caloi 1985 (GALPAO 23)
Guarapiranga
Sao Paulo - SP CEP 05802
tel (55) 11-5891-2274
fax (55) 11-5890-3353

MEXICO
Ave. Congreso de la
Union
#524 Colonia Santa Anita
Mexico D.F 08300
tel 525 538 9687
fax 525 530 7625

www.mgeups.com
info@mgeups.com

GX PW 100
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