

EPS Solutions for High Availability



The EPS 6000 has set the standard for critical power protection in high-powered environments. Chosen for some of the world's most mission critical applications, the EPS 6000's field proven performance delivers a level of comfort and reliability only available from MGE.

Featuring aircraft quality construction and MGE's Digital Power Quality (DPQ) logic, the EPS 6000 maximizes efficiency & output power quality under all load conditions. Optimized for 100% nonlinear loads, the EPS 6000 restricts output voltage distortion to under 4% even on 100% step loads. These rigid performance specifications guarantee computer grade power quality under the harshest conditions.

MGE UPS SYSTEMS

the world's largest and most trusted three phase UPS manufacturer

THE UNINTERRUPTIBLE POWER PROVIDER

EPS 6000 300/375/500 kVA

Uninterruptible Power Supply

Advanced Features

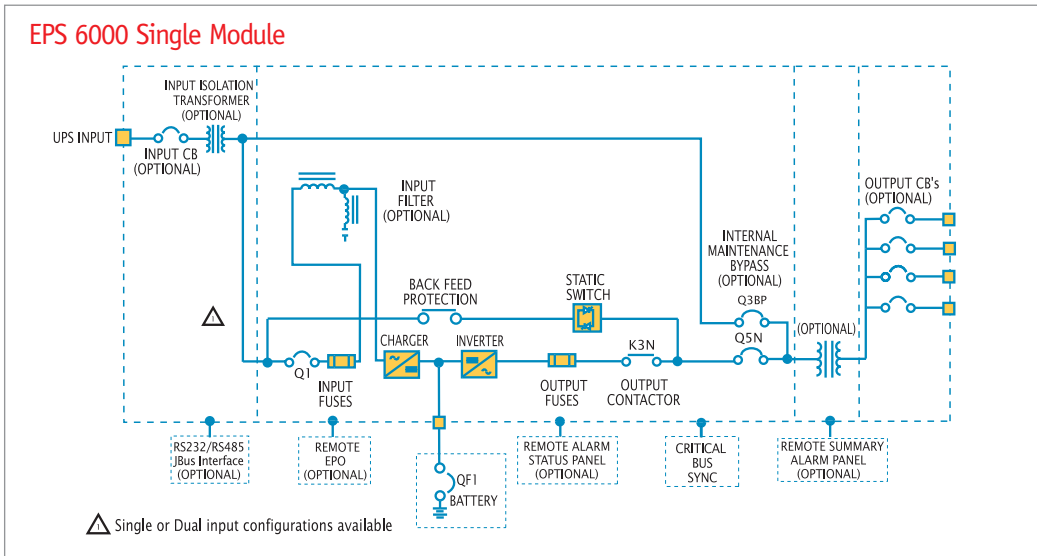
- ▶ High energy efficiency
- ▶ Low kVAR Input Filter
- ▶ No leading power factor
- ▶ No mechanical switching of filters
- ▶ Digital Power Quality Logic
- ▶ Superior output voltage regulation
- ▶ Advanced battery management
- ▶ Fault tolerant circuitry
- ▶ Non-linear load optimized
- ▶ Unitary or Parallel operation
- ▶ Aircraft quality construction
- ▶ Modular assemblies
- ▶ Detailed remote monitoring and communication
- ▶ Computer aided diagnostics
- ▶ Industry leading reliability
- ▶ Graphical user interface (optional)
- ▶ Critical Bus Synchronization (optional)

M G E
UPS SYSTEMS

Technical Specifications	300kVA/240kW				375kVA/300kW				500kVA/400kW	
Input Voltage (V)	208	480	480	600	208	480	480	600	480	600
Output Voltage (V)	208	208	480	600	208	208	480	600	480	600
Nominal Input w/o Filter (A)	900	400	400	293	1,100	490	490	367	630	489
Maximum Input w/o Filter (A)	1,125	500	500	366	1,375	613	613	459	788	611
Nominal Input with Filter (A)	740	320	320	260	930	400	400	320	545	436
Maximum Input with Filter (A)	930	400	400	320	1,160	500	500	400	681	545
Input Breaker: Frame Size (A)	1,000 (1)	1,000	1,000	1,000	1,000 (1)	1,000	1,000	1,000	1,000	1,000
Trip (A)	600	600	600	600	700 (1)	700	700	700	1,000	1,000
Nominal Bypass Current (A)	833	361	361	289	1,041	451	451	361	601	484
Maintenance Bypass CB and Output CB: Frame Size (A)	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
Trip (A)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Max Output Current (A)	833	833	361	289	1,041	1,041	451	361	601	484
Max DC Current	647	647	647	647	809	809	809	809	1,074	1,074
Non-linear System Efficiency:	100	100	100	100	100	100	100	100	100	100
100%	93	93	94	93	93	93	94	93	94	93
75%	91	93	94	93	93	93	94	93	94	93
50%	91	92	93	92	91	92	93	92	94	92
Full Load Heat	66,396	61,636	52,269	61,666	82,995	77,045	65,336	77,000	79,453	(3)
Rejection _{THD}										
Module Width: (75"Hx32"D) (2)	162	113	63.5	162	162	113	63.5	162	113	(3)
(without filter) UPS Weight(lbs)	9,815	8,379	5,543	9,815	10,440	8,836	5,612	10,440	7,211	(3)

(1) @480 volts. Contact MGE for optional input CB at 208 volts (2) Input filter: 300-375 kVA add 18 inches, 480/480 only, 500kVA internal to UPS
(3) Call factory for details ■ Single Module Only

EPS 6000 Single Module



Standard Features

- ▶ Low kVAR input filter (500kVA)
- ▶ IGBT PWM inverter w/Digital Power Quality logic
- ▶ 6 pulse rectifier
- ▶ Serial and dry contact communications interface
- ▶ Computer aided diagnostics
- ▶ Advanced battery management
- ▶ Front only access
- ▶ Redundant fan assemblies

Input

- ▶ Input Voltage 208/480/ 600 VAC, +10/-15%, 3ph, 3/4W + GRD
- ▶ Frequency (Hz) 60 Hz, ±10%
- ▶ Power Factor 0.9 lagging
2 kVAR max leading
- ▶ Input Current Distortion 7% (500kVA-5%) THD at full load

Output

- ▶ Power Factor 0.8
- ▶ Voltage 208/480/600 VAC, 3ph, 3/4W + GRD
- ▶ Frequency 60 Hz, ±2.0 Hz (selectable)
0.1% free running
- ▶ Voltage Regulation ±0.5% steady state
(±2.5% 100% step load)
- ▶ Voltage Distortion 4% max for non-linear loads
w/crest factor of 3.5
2% max linear load
- ▶ Inverter Overload 125% for 10 minutes,
150% for 1 minute,
- ▶ Phase Displacement Up to 100% 120' ±3% max.
(unbalanced load)

Bypass Input

- ▶ Voltage +10/-15%, 3ph, 3/4W + GRD
- ▶ Frequency 60Hz (±0.25 Hz up to 2 Hz selectable)

DC Rating

- ▶ Nominal Voltage 480 VDC

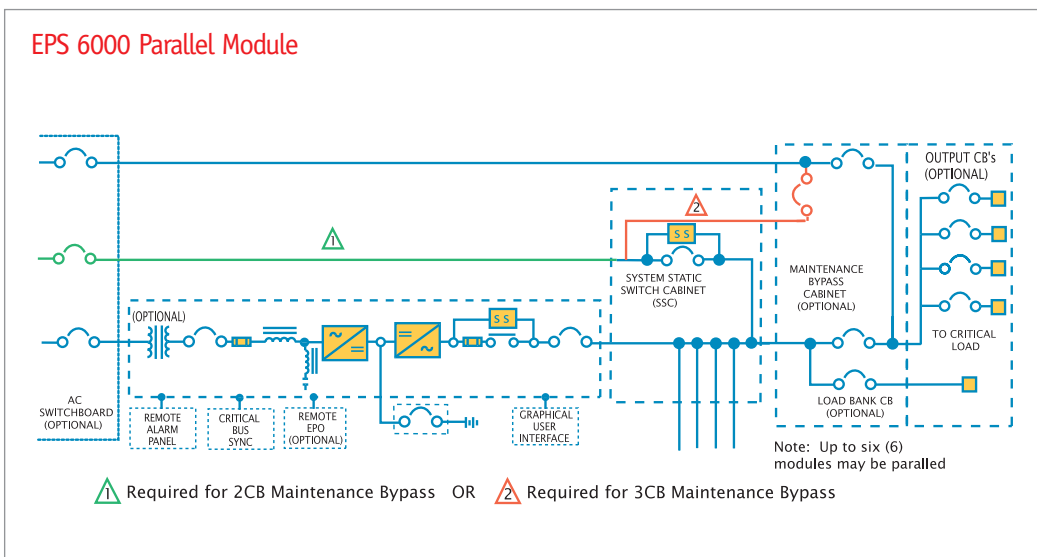
Environmental Specifications

- ▶ Operating Temperature 0°C to 40°C (32°F to 104°F)
- ▶ Non-operating: -20°C to +45°C (-4° to 113°F)
- ▶ Audible Noise 75 dB @ 5'
- ▶ Relative Humidity 0-90% non-condensing

Options

- ▶ Input Isolation Transformer
- ▶ Low kVAR Filter (300/375kVA)
- ▶ Graphical User Interface with Network Connection
- ▶ Battery Disconnect
- ▶ External Maintenance Bypass
- ▶ Load Bank Breakers
- ▶ Critical Bus Synchronization Module
- ▶ Remote Alarm Status Panel (RASP)
- ▶ Remote Summary Alarm Panel (RSAP)
- ▶ Output Distribution
- ▶ Integrated Parallel Feature (375/500kVA)
- ▶ Continuous Duty and Momentary Duty Static Switch Cabinet (SSC)
- ▶ Bottom Cable Entry
- ▶ Seismic Anchors
- ▶ Battery Monitoring
- ▶ Raised floor stands
- ▶ Network Management Card/Web SNMP
- ▶ Power Management Software

EPS 6000 Parallel Module



MGE UPS SYSTEMS

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

MEXICO
Ave. Congreso de la Union
#524 Colonia Santa Anita
Mexico D.F 08300
tel (5255) 538-9687
fax (5255) 530-7625

BRAZIL • Sao Paulo Office
Avenida Guido Caloi 1985
(Galpao 23), Guarapiranga
Sao Paulo -SP,
05802-140-Brazil
tel (55) 11-5515-9255
fax (55) 11-5515-9250

www.mgeups.com
info@mgeups.com

EPS6k
Revision 201
Effective: September 2006