

GE Consumer & Industrial
Power Quality

Technical datasheets

Uninterruptible Power Supply

EP Series / 700-1000-2000-3000-6000 VA



A Product by:

GE Consumer & Industrial
General Electric Company

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GE imagination at work



General data					
Model	EP 700	EP1000	EP2000	EP3000	EP6000
	Tower Standard; Tower LRT (long runtime); Rack Standard				
Topology	VFI, double conversion				
Nominal output rating (VA/W)	700/490	1000/700	2000/1400	3000/2100	6000/4200
Overall efficiency at nominal load	85% (line mode); 83% (battery mode)				88%
Audible noise level (dB)	45		50		55
Operating temperature range	0°C-40°C, 20°C-25°C (recommended)				
Storage temperature range	0°C-40°C				
Relative humidity	0-95% non-condensing				
Safety	IEC/EN 62040-1-1				
EMI	IEC/EN 62040-2 Category C1, IEC/EN 61000-3-2/3			IEC/EN 62040-2 Category C3	
EMS	IEC/EN 61000-4-2/4/5 Level 4, IEC/EN 61000-4-3 Level 3, IEC/EN 61000-2-2				
Colour	Black				
Cooling	Force air cooling, fan load dependent under 3 levels				

Input					
Nominal AC Input voltage	220/230/240Vac				
AC Input voltage range	110-300Vac			176-276Vac	
Input frequency range	50/60Hz ±8%, auto sensing				
Power factor	>0.97			>0.98	
THDi	< 10% (Normal Input and full load)				
Nominal input current (A, no charging, U _{in} =230Vac)	2.6	3.7	7.4	11.1	21.2
Input breaker (A)	7	7	12	16	32

Output					
Inverter bridge	PWM and IGBT technology				
Nominal AC output voltage	220/230/240 Vac				
Output voltage waveform	Sine wave				
Output voltage tolerance	±2%				
Overload capability	Load<110% continuously working; 150%>load>110% 30s; load>150% 300ms			Load<105% continuously working; 130%>load>110% 10s; load>150% 1s	
Short circuit protection	Cut off output within 7 cycles then fault				
Output frequency	50/60Hz, synchronization with the mains in line mode				
Output frequency tolerance	±0.2Hz, unless synchronized with the utility				
Frequency tracking range	46-54Hz/56-64Hz				
Max. Phase shift difference input-output	3 degree				
Harmonic distortion with liner load	≤3%				
Harmonic distortion with non-liner load)	≤6%				
Crest factor	Max 3:1				
Output power derating altitude	Up to 1000m no derating, above 1000m 1% derating per 100m				
Protection	Automatic shut down (or transfer to bypass if available) in case of: -low/high DC voltage -over temperature -overload/ short circuit				

Battery					
Battery type	VRLA/sealed battery and maintenance free with 3-5 years typical life				
Battery charging characteristic	0.7-3kVA: floating charging. 6kVA: constant current-constant voltage-floating voltage				
Battery charger input voltage	80-300Vac			176-276Vac	
Float voltage at 25°C	41Vdc		110Vdc		273Vdc
Number of 12V batteries (in standard version)	3*7.2Ah		8*7.2Ah		20*7.2Ah
Standard backup time at nominal load PF=0.7 (mins)	11	6	10	5	8
Recharge time (internal battery type only)	5Hours to 90% capacity				8Hours to 90% capacity
Max. Charging current (A, Long Runtime Model)	7		8		4.2
Battery protection	40A/Fuse			30A/Fuse	

Bypass					
Bypass voltage limits	80-264 Vac			176-261 Vac	
Frequency tracking range	46-54Hz/56-64Hz				
Slew rate	1 Hz/sec				

Interfacing					
Input	IEC 320	IEC 320	IEC 320	IEC 320	Terminal
Output (tower)	4 IEC 320	4 IEC 320	6 IEC 320	6 IEC 320	Terminal
Output (Rack)	4 IEC 320	4 IEC 320	4 IEC 320	2 IEC 320	4 IEC 320 + 1 terminal
Communication port	RS232, USB, SNMP (option)				

Controls, signals and alarms

Front

- ON/OFF buttons; Load/Battery capacity LED display
- UPS status LED display: UPS ON; ALARM; BYPASS; AC INPUT; BATTERY

Rear

- RS232 Communication port; Cooling fan
- Intelligent slot: USB, SNMP (optional)
- Manual bypass switch (for 6kVA only)
- Network/Fax/Modem Surge protection
- Input and output slot; External battery socket (for LRT version)

Dimensions (W x D x H) and weights					
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Dimensions (Tower, mm)	145x400x220		192x460x340		260x570x717
Dimensions (Rack, mm)	482x420x87 (19", 2U)				483x600x130(19", 3U)
Weights (Tower, kg)	14	14	34.5	35.5	90
Weights (Tower LRT, kg)	7	7	15	16	35
Weights* (Rack, kg)	15	15	9.6	10	18.3
Battery pack 96V Rack	Dimension: 482x420x87 mm; Weight: 26Kg				
Battery pack 240V Rack	Dimension: 483x600x130 mm; Weight: 64.2Kg				
*Rack 700-1000 Internal battery. Rack 2000-3000 External battery cabinet					