

Features

Standard features

- ▶ Double-conversion online technology guarantees high system availability
- ▶ Prioritized cooling to ensure a long product life
- ▶ Battery management system tracks battery performance
- ▶ Digital signal processing (DSP) delivers top performance
- ▶ Global Services provides a wide range of services for optimal system
- ▶ Digital network control (DNC) logic
- ▶ Pulse width modulation
- ▶ Generator-compatible rectifier
- ▶ Phone Home alarm
- ▶ 50°C operation
- ▶ Heavy duty enclosure
- ▶ Output isolation transformer
- ▶ Battery management system
- ▶ Remote diagnostics
- ▶ Monitor panel
- ▶ Top/bottom cable entry performance and availability

Optional features

- ▶ Heavy duty filters
- ▶ Input isolation transformer
- ▶ Telephone modem
- ▶ RS232 communication port
- ▶ Intelligent input filter
- ▶ ANSI 61 gray exterior
- ▶ DC ground fault detection
- ▶ Relay contacts and interface modules
- ▶ Remote status panel
- ▶ Matching battery cabinets
- ▶ Matching maintenance bypass modules
- ▶ Matching power distribution modules

Powerware BPIII 300 Industrial UPS 225-300 kVA



BPIII Models:

225 kVA/180 KW

300 kVA/240 KW

Dependable power is fundamental to the productivity and optimal operation of any industrial application, and industrial environments face a unique set of challenges in guaranteeing the availability of quality power. Unlike the pristine conditions found in many data centers and other computer-based installations, industrial environments experience fluctuating temperatures, humidity, frequency variations, airborne dust, and a myriad of other unanticipated threats to power delivery.

The BPIII 300 Industrial UPS from Powerware is specifically designed to protect the power for industrial applications in the 225 – 300 kVA range. Ideal for the manufacturing, chemical process, petrochemical and transportation industries, the BPIII combines double conversion online technology, advanced communications and diagnostics, and a rugged design for the ideal industrial power solution.

Specifications

Input Specifications

Voltage range:	(See chart on other side)
Frequency range:	(60 Hz) 57-63 Hz
Surge protection:	Meets ANSI C62.41
Category A & B:	EN 50091-2, and EN 50082-2
Power factor:	0.95 typical at full load with input filter

Input current

distortion:	less than 7% with input filter
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Output Specifications

Voltage THD:	Less than 5% (100% non-linear load with 3:1 crest factor); less than 3% (100% linear load)
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Voltage regulation:	Better than ±1%
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Transient response:	Less than 5% for 100% load step; full recovery within 2.5 ms
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Frequency:	(free run) ±0.005 Hz
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Frequency sync range:	±0.5 Hz
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Frequency slew rate:	1 Hz/second maximum
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Voltage adjustment

range (operator):	±5%
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Environmental Specifications

Ambient

temperature:	0°C to +40°C
Storage:	-20°C to +70°C
Relative humidity:	Up to 95% non-condensing
Altitude:	1500 meters (5000 ft.) at 40°C ambient temperature without load derating

Audible noise:	Less than 65 dBA at 1 meter; in accordance with ISO 7779
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Electrostatic discharge:	Withstands 25 kV without damage or disturbance to the load; exceeds requirements of IEC 801-2
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EMC:	Meets FCC class A and EN 50091-2 (CISPR 22, class A)
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Battery Specifications

Matching cabinets – remote option available

Battery type:	Sealed, valve regulated lead acid
Recharge time:	10-12 times the discharge time to 95%

Safety

UL1778 listed, cUL CAN/CSA C22.2 NO.107.1-M91 listed EN 50091-1; All cabinets provide seismic mounting features; Selectable DC ground fault detection capability

		Model 225						Model 300		Model 300	
		225 kVA /180 kW						225 kVA /180 kW		300 kVA /240 kW	
Input Voltage	VAC (L-L)	208	208	480	480	480	480	480	480	480	480
Input Frequency	Hz	60	60	60	60	60	60	60	60	60	60
Nominal Current (with filter)	Amps	721	649	312	281	312	281	312	281	416	354
Maximum Current (with filter)	Amps	901	811	390	351	390	351	390	351	520	442
Nominal Current (without filter)	Amps	800	720	360	324	360	324	360	324	480	408
Maximum Current (without filter)	Amps	1000	900	450	405	450	405	450	405	600	510
AC Output											
Output Rating	kVA	225	203	225	203	225	203	225	203	300	255
Output Voltage	VAC (L-L)	208	208	208	208	480	480	480	480	480	480
Output Frequency	Hz	60	60	60	60	60	60	60	60	60	60
Nominal Current	Amps	625	563	625	563	271	244	271	244	361	307
10 Minutes Max	Amps	781	703	781	703	339	305	339	305	451	384
Bypass Input											
Nominal Current (Amps)	Amps	625	563	271	244	271	244	271	244	271	230
DC INPUT LINK											
Nominal Voltage (VDC)	VDC	480	480	480	480	480	480	480	480	480	480
Float Voltage (VDC)	VDC	540	540	540	540	540	540	540	540	540	540
End of Discharge (VDC)	VDC	401	401	401	401	401	401	401	401	401	401
Maximum Current (Amps)	Amps	450	405	450	405	450	405	450	405	600	510
Mechanical Specifications											
Installed Weight	lbs	6363	6363	3863	3863	3863	3863	4177	4177	4177	4177
Installed Weight	kgs	2889	2889	1754	1754	1754	1754	1896	1896	1896	1896
Installed Width	in	103	103	65	65	65	65	65	65	65	65
Installed Width	cm	262	262	165	165	165	165	165	165	165	165.1
SYSTEM EFFICIENCIES											
100% Load	%	92	92	93	93	94	94	93	93	94	94
75% Load	%	92	92	92	92	94	94	93	93	94	94
50% Load	%	91	91	92	92	93	93	92	92	93	93
Inverter DC-AC	%	95	95	95	95	95	95	95	95	95	95
Full Load Heat Dissipation											
BTU/Hr.(x1000)		53.7	53.7	45.6	46.3	39.4	39.2	33.3	53.7	45.6	53.2
kCal/Hr. (x1000)		13.5	13.5	11.5	11.7	9.9	9.0	8.4	13.5	11.5	13.2

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