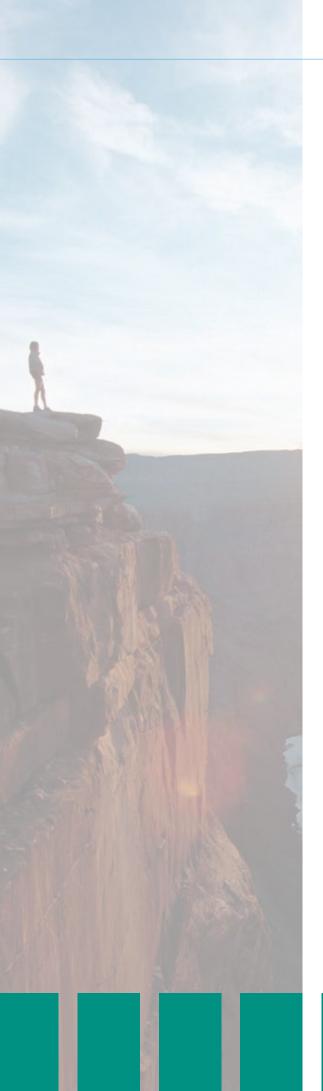


ИБП Newave Powervalue 11 и Powervalue 31 - брошюра на продукцию. Юниджет

ibp/abb-powervalue-11-31/

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/ibp/on-line-







POWERVALUETM

Compact protection for power supply For Continous Power Protection Availability



Technical specifications PowerValue™ II and 31

GENERAL DATA		I-phase in/ou	utput (11)	3	3-phase input/1-	phase output (31)	
Output Rated Power	kVA	7.5 10	12	7.5	10	15	20
Output Power Factor	KIA	7.5	12	0.7	10		
Topology			Dou	ble conversion (on-li	ine)		
Construction				Standalone	····•)		
Static and Maintenance Bypass				Standard			
Cable entry			Cabinet A from	rear, cabinet B and	I C from front		
Audible Noise With 100%/50% load	dBA	50/48 50/4		50/48	50/48	53/49	53/49
Inbuilt Batteries				Yes			
INPUT							
Voltage	V	I x 220/230)/240+N	3 x 380/2	220+N, 3 x 400	0/230+N, 3 x 415	/240+N
Voltage Tolerance (Ref. to 3x400/230 V)		For lo	oads <100% (-23%,+15	%), <80% (-30%,+	+15%), <60% ((-40%, +15%)	
Current Form THDi	%	THDi=7				(THDi=12-14% op	tional)
Frequency	Hz			35-70			
Power Factor (electrically regulated)		0.98	}		0.95 standard	(0.98 optional)	
Current Distortion	%			sinewave			
Inrush Current				Soft start			
Cabling				Hardwired			
OUTPUT							
Voltage	V		I	x 220/230/240+N			
Voltage Tolerance (Ref. to 3x400/230V)			1% (linea	r load), 4% (non-lin	ear load)		
Voltage Distortion	%	<2% linear load, <4% non-linear load (IEC/EN62040-3)					
Frequency	Hz	50 or 60					
Frequency Tolerance	Hz	±0.1 (free-running), ±2 or ±4 (with mains, adjustable)					
Overloading capability	%		125%	6/10 min., 150%/	60 s		
Crest Factor		3:1					
EFFICIENCY							
Load 100/75/50/25%	%		Up to 94.5/	94.5/93/91, AC-AC or	n-line mode		
Eco-Mode at 100% Load	%		•	98			
ENVIRONMENT							
Storage Temperature	°C			-25+70			
Operating Temperature	°C	0+40					
Maximum Altitude	m	Up to 1000m without derating, max. 3000m					
COMMUNICATIONS			,	<u> </u>			
Interfaces			10-0	Display (PDM), Ix RS2	737		
c.		I x RS232 (SMART PORTS), customer input interfaces (Remote shutdown, GENSET-ON),					
						,,,	
Options		customer output interfaces (Dry Ports) Additional COM-Cards					
STANDARDS							
Safety			IEC/EN	62040-1-1 IFC/FN 6	.0950_I		
Electromagnetic Comp. (EMC)		IEC/EN 62040-1-1, IEC/EN 60950-1 IEC/EN 61000-6-4 (product standard IEC/EN 62040-2 limit A (C2 UPS))					
Electromagnetic comp. (Erre)		IEC/EN 61000-6-2 (product standard IEC/EN 62040-2 Criterion A (C2 UPS))					
		IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6					
Performance		IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-3, IEC/EN 61000-4-5, IEC/EN 61000-4-6					
Product Certification		CE, GOST by TÜV					
Enclosure		IP 20					
Manufacturing		ISO 9001:2000, ISO 14001:2004					
Hallulacturilly		Italy					
Country of origin				Cahinet Tyne			
Country of origin WEIGHT, DIMENSIONS		A /7 E ELVA)	D (7.5	Cabinet Type	C (7.5	201//4/	
Country of origin	kg	A (7.5—15kVA) 75		Cabinet Type —20kVA) 54		–20kVA) 04	

pecifications are subject to change without notice.

Technical specifications PowerValue™ 33

Output Rated Power	kVA	7.5	10	15	20	30	40
Output Power Factor					.8		
Topology					rsion (on-line)		
Construction					alone		
Static and Maintenance Bypass					dard		
Cable entry		Cabinet A from rear, Cabinet B and C from front					
Audible Noise with 100% / 50% load	dBA	50/48	50/48	43/49	53/49	59/51	63/53
Inbuilt Batteries	UDA	307 10	30/10		es	37731	03/33
INPUT							
	V		2 2	00/220 i N 2 400	/220 LN 2 415/2.	40 I N	
Voltage Voltage Tolerance (Ref. to 3x400/230 V)	V				/230+N, 3 x 415/2		/\
Current Form THDi	%	Γ.			% (-30%,+15%), < (THDi=12-14% optio		0)
Frequency	Hz		יטחו		(1801—12-1476 optio -70	mai)	
Power Factor (electrically regulated)	ПД				(0.98 optional)		
Current Distortion	%				wave		
Inrush Current	/0				start		
Cabling					wired		
OUTPUT				iiatu	ниси		
				00/220 - 11 2 400	(222 - 11 - 2 - 415 (2	40 - 11	
Voltage	V				/230+N, 3 x 415/24		
Voltage Tolerance (Ref. to 3x400/230 V)	0./				±3 (non-linear load)		
Voltage Distortion	%		<2% lir		-linear load (IEC/EN6	52040-3)	
Frequency	Hz		101/		or 60		
Frequency Tolerance	Hz		±0.1 (f		±4 (with mains, ad	justable)	
Overloading capability Permissible Unbalanced Load	%	125%/10 min., 150%/60 s 100% (all 3 phases regulated independently)					
rermissible undalanced Load Crest Factor	%		10		eguiated independenti : I	у)	
				3	: I		
EFFICIENCY							
Load 100/75/50/25%	%			•	2, AC-AC online mode	9	
Eco-Mode at 100% Load	%			9	8		
ENVIRONMENT							
Storage Temperature	°C			-25	.+70		
Operating Temperature	°C			0	+40		
Maximum Altitude	m	Up to 1000m without derating, max. 3000m					
COMMUNICATIONS							
Interfaces				LC-Display (Pl	DM), Ix RS232		
		Ιx	RS232 (SMART PO		interfaces (Remote s	shutdown. GENSET-	ON).
		customer output interfaces (Dry Ports)					
Options			,		COM-Cards		
Standards							
Safety				IEC/EN 62040-1-	IEC/EN 60950-1		
Electromagnetic Comp. (EMC)		IEC/EN 62040-1-1, IEC/EN 60950-1 IEC/EN 61000-6-4 (product standard IEC/EN 62040-2 limit A (C2 UPS))					
Electromagnetic Comp. (EMC) IEC/EN 61000-6-2 (product standard standard standard stan							
		IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6					
Performance		IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6 IEC/EN 62040-3					
Product Certification		CE, GOST by TÜV					
Enclosure		IP 20					
Manufacturing		ISO 9001:2000, ISO 14001:2004					
· · · · · · · · · · · · · · · · · · ·					aly		
Country of origin							
Country of origin				C-F;	t Ivno		
Country of origin WEIGHT, DIMENSIONS			401.141	Cabine			401.114
	kg		-40kVA) 75	B (7.5-	-40kVA) -40	C (7.5-	

PowerValue[™] – The Beauty of Power Protection Simplicity



PowerValue™ represents an accurately balanced combination of unmatched reliability, excellent electrical performance, exceptionally compact size and outstanding cost-efficiency housed in an attractive enclosure.



Cabinet A: Up to 15kVA with 10 min.



Cabinet B: Up to 40kVA with 10 min.



Cabinet C: Up to 40kVA with 20 min.

Medium-sized power protection range with outstanding price/performance capability

PowerValue[™] is a third-generation transformer-less double-conversion (VFI) power protection technology designed to protect a wide area of critical applications including server rooms, networks, telecommunication systems, industrial processes and medical equipment.

PowerValue[™] addresses midsized server rooms, networks, telecommunication systems, industrial processes and medical equipment where the higher cost of parallelable or scalable power protection solutions are not justified. Furthermore, as PowerValue[™] provides increased protection security and efficiency it can be used instead of multiple separate, smaller units spread throughout a facility.

The uniqueness of the PowerValue[™] design lies in its technical simplicity which is based on Newave's transformerless, double-conversion (VFI = Voltage Frequency Independent) technology with unmatched reliability.

PowerValue[™] is available in a variety of models and input/output configurations:

- PowerValue[™] (Iphase input and Iphase output),
 7.5, 10 and 12 kVA
- PowerValue[™] (3phase input and Iphase output),
 7.5, 10, 15 and 20 kVA
- PowerValue[™] (3phase input and 3phase output),
 7.5, 10, 15, 20, 30 and 40 kVA

Features and benefits

Provides more power protection value at a more affordable price



PowerValue[™] has been designed to provide an optimised price/performance ratio. A number of exceptional features have been carefully selected and built into the PowerValue[™] without a substantial increase of material contents in order to optimize both performance and cost benefits.

Benefits	Features		
Continuous Uptime	Highest reliability is provided through mature, on-line double conversion, transformerless technology. Built-in reliability with redundant power supply, reduced cable harness, improved cooling of critical components.		
Space Saving	Smallest foot-print and weight: I 5kVA (3/3) = 0.26 mm², weight w/o batteries = 75kg 40kVA (3/3) = 0.37 mm², weight w/o batteries = 204kg		
Cost Saving	Outstanding power and back-up-time density.		
High Power Availability	Wide input voltage window (up to 40% for loads less than 60%) and input frequency window (35–70 Hz) allows high power availability even in environments where input power supply is unstable and sub-standard. Battery usage is minimised.		
Low Cost of Ownership	Thanks to Energy Saving Inverter Switching (ESIS) high double conversion efficiencies (up to 95%) are achieved. PowerValue™ II: PF = 0.98 and THDI = 7–9% PowerValue™ 31: PF = 0.98 and THDI <25% standard (THDI = I2–I4% optional) PowerValue™ 33: PF = 0.98 and THDI <25% standard (THDI = I2–I4% optional)		
Low Audible Noise	Variable load-dependent DC-fan-speed reduces the audible noise, so that the UPS can be operated in office environments.		
Integration in Networks	PowerValue [™] has advanced monitoring and communication capabilities to keep you in constant command of your critical power protection system.		
Protects Your Environment	PowerValue [™] protects not only critical applications but also our environment. It is a true environmentally friendly UPS with limited hardware components (saving natural resources).		

Interfaces

User friendly, easy to install and easy to commission

PowerValue[™] is a user-friendly UPS which is easy to install and commission. In the following pictures the various interfaces of the UPS are illustrated:

Interfaces for cabinet A, B and C



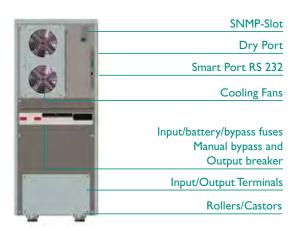
Front View Cabinet B*

User friendly Control Panel is composed of:

- a. Mimic Diagram
- b. LC-Display
- c. Keyboard

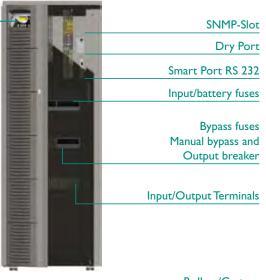


Front View Cabinet A



Cooling Fans

Rear View Cabinet A



Rollers/Castors

Rear View
Cabinet B*

 $^{{}^{*}\}text{The position of the interfaces on the larger cabinet C}$ are equivalent to cabinet B.

Battery flexibility

Compact size with capability of supplying longer back-up times without extra battery cabinet

PowerValue[™] is provided in three cabinet sizes in order to allow longer battery back-up times and therefore avoid the use of additional battery cabinets. All PowerValue[™] are equipped with a 6 Amp ripple-free battery charger that protects batteries and delays their aging process. Optional temperature-dependent charging function is provided. The advanced Battery Monitoring and Management algorithm monitors the battery continuously and in the unlikely event of a battery fault an early warning will be triggered.

Battery configurations

Cabinet type*	Maximum Battery Configuration	Maximum Back-up (mi	UPS Rating (kVA)	
A	2 x 27 x 9Ah	28 (PF=0.8) 20 (PF=0.8) 14 (PF=0.8) 12 (PF=0.8)	33 (PF=0.7) 23 (PF=0.7) 18 (PF=0.7) 14 (PF=0.7)	7.5 10 12 15
В	3 x 48 x 9Ah	96 (PF=0.8) 66 (PF=0.8) 52 (PF=0.8) 40 (PF=0.8) 26 (PF=0.8)	110 (PF=0.7) 78 (PF=0.7) 62 (PF=0.7) 46 (PF=0.7) 30 (PF=0.7) F=0.8)	7.5 10 12 15 20
С	2 x 40 x 28Ah	11 (PF=0.8) 130 (PF=0.8) 76 (PF=0.8) 60 (PF=0.8) 35 (PF=0.8) 28 (PF=0.8)		40 10 15 20 30 40

Options

Monitoring and control data are shown on an easy-to-understand front panel display featuring pushbutton controls, LCD readout for event logs and diagnostics and a mimic diagram for system status.

Wavemon shutdown and management software is compatible with all common operation systems.

The power protection system can be remotely monitored via RS232, volt-free relays or via SNMP Adapter.

Newave Group Companies

Newave Energy Holding SA Via Luserte Sud 9 CH-6572 Quartino **Switzerland**

Tel. +41 91 850 29 29 Fax +41 91 840 12 54 info@newave.ch www.newaveups.com

Head Office: Operations, Sales & Marketing

Newave SA

Via Luserte Sud 9 CH-6572 Quartino Switzerland

Tel. +41 91 850 29 29 Fax +41 91 840 12 54 info@newave.ch www.newaveups.com

Subsidiaries

Austria Newave Österreich GmbH

Ungargasse 36 A-1030 Wien Österreich Tel. +43 (I) 710 96 70 16 Fax +43 (I) 710 96 70 12 info@newaveups.at www.newaveups.at

Brazil

Newave South America LTDA Rua Clodomiro Amazonas No. 1422 Suite 68 BR-04537-002 - São Paulo Tel. +55 11 3045 0809 Fax +55 11 3045 0764 info@newayesam.com www.newaveups.com

Finland

Newave Finland OY Niittlyäntie 5 (postal) Läkkisepänkuja 6 (visiting) FIN-00620 Helsinki Tel. +358 9 751 46 100 Fax +358 9 751 46 120 info@newaveups.fi www.newaveups.fi

Germany

Newave USV Systeme GmbH Summerside Ave. C 207 Baden Airpark D-77386 Rheinmünster Tel. +49 7229 1866-0 Fax +49 7229 1866-33 zentrale@newave-usv.de www.newave-usv.de

Hong Kong & China

Newave Energy Hong Kong Itd Room 2506, West Tower, Shun Tak Centre HK-168-200 Connaught Road Central Tel. +31642215512 info@newave.cn.com

with branch office in China:

Newave Energy (Jiangmen) Limited 9/F Kawa House, 49 Jiangshe Road, Jiangmen, GuangDong, China Postal Code: 529000 Tel. +86 750 3680239 Fax +86 750 3680229 info @newave.cn.com

www.newave.com.cn

Newave Energy India Private Limited 102/103 Tanishka, Akurli Road, Near Big Bazar, Kandivali East IN-400 101 Mumbai Tel. +91 (22) 42179292 Fax +91 (22) 42179200 rshah@absothermindia.com www.newaveups.com

Italy

NEWAVE Italia Via Vincenzo Ussani, 90 I-00151 Roma Tel. +39 06 8745 1674 Fax. +39 06 39389924 newaveitalia@gmail.com www.newaveups.it

Spain

Newave España SA Arturo Soria 329 I D ES-28033 Madrid Tel. +34 (91) 768 22 22 Fax +34 (91) 383 21 50 newave@newave.es www.newave.es

Switzerland

ServiceNet AG Industriestrasse 5 CH-5432 Neuenhof Tel. +41 56 416 01 01 Fax +41 56 416 01 00 info@servicenet.ch www.servicenet.ch

with branch office in Biel:

Am Wald 36 CH-2504 Biel Switzerland Tel. +41 32 366 60 30 Fax +41 32 366 60 35 biel@servicenet.ch

The Netherlands

Newave UPS Systems BV Stephensonweg 9 NL-4207 HA Gorinchem Tel.+31 183 64 6474 Fax +31 183 62 3540 info@newaveups.nl www.newaveups.nl

References

ABB Acer AEG SVS American British Racing American Express Ansar Almoiahedin ARGE NS Lötschberg **AXA** Insurance Bank Renaissance Moscow Bank Vontobel AG Barclays Bank Basijian Institute Basler Versicherung

BBC (British Broadcasting Corp.) Belgorodenergo Betty Barclay Blaupunkt

BLS Lötschbergbahn AG BNFL (British Nuclear Fuels Ltd.) Boehringer Ingelheim British Airport Authority (BAA) British Council British Telecom Bürgerspital St. Gallen Cable and Wireless Cambridge University

Caterpillar Central Bank of Russian Federation

Cepsa Coca Cola Core Telecom Correos de España Credit Suisse Dachser Daimler AG **Danfoss** Deutsche Post DNA EADS **EDEKA**

EDP (Electricity of Portugal)

Elisa Eterra Fujitsu

Gestamp Corporation Glaxo Smith Kline

Henkel Hilton Honeywell HSBC Hyatt IBÉRIA **IBM** Intel Interoute

Iran Insurance Iran Telecom (TCI) IXEurope (Switzerland) AG Karafarin Bank

Lekkerland Lloyds TSB Lonza AG LUKOIL Manor AG Mehiläinen Meridien

Meteorological Office Metropolitano de Lisboa Migros Ostschweiz

Mobile TeleSystems (MTS)

Mobistar

NATs (National Air Traffic control)

Nestlè

Nokian Renkaat

Novartis Consumer Health Schweiz AG

Nuffield Hospitals O2

Océ (Schweiz) AG

Olvi

Oracle Corporation OSCE Kosova Osuuspankkikeskus Outokumpu Oxford University Paulaner Portugal Telecom Procter & Gamble Rabo Bank

Radio Televisión Española REFER (Protuguese Railways) REPSOL-YPF

Rittal Ritz

Rohde & Schwarz Rolex SA ROS Telecom Roshal's medical clinic Royal Bank of Scotland Royal Scandinavia Russian Railways Sampo Pankki Schiphol Airport Schweiz. Bundesbahnen SBB

Scottish Power Sheraton Siemens Schweiz AG Soudronic AG Stora Enso

Studienzentrum Gerzensee Swiss Railway Swiss Reinsurance

T-mobile Technion Technische Betriebe Tedjarat Bank Telekurs Services AG

Tesco Thales

Tiefbauamt Nidwalden

Tool-Temp

Unified Energy System of Russia United Bank of Switzerland (UBS)

UPM-Kymmene Waitrose VAPO Veikkaus Williams

Winterthur-Assurance p.a. wincasa

Vneshtorgbank

Vnukovo Airport Moscow

Vodafone Wolseley von Moos Stahl AG VR-Rata Ziegler Papier AG 7urich

Zürcher Kantonalbank

Newave Certifications & Recognitions

