



zutronic[®]

NEVER *WITHOUT* POWER

UPS CATALOGUE - GDC SERIES



Zutronic[®] is a Company specialized in the design and production of custom emergency power systems (AC and DC UPS), for Oil & Gas, Energy, Transportation, Utilities, Industrial, Service and IT applications. The Company, with an experience of more than 20 years in the energy conversion sector, has been involved in hundreds of supplies to major EPCs for custom designed systems for international projects and solutions and has enabled us to acquire an important know-how that is constantly recognized. Since the very first years, the company stood out for its technical competence and reliability to support its Customers in all phases of the project. The products are designed and manufactured in the dedicated plant located in Mantova, while the headquarter and sales office are located in Brembate di Sopra (BG), about 40 km from Milan, near the electrical engineering sector Italian most important pole.



APPLICATIONS

SERVER POWER AND DATA NETWORKS

INDUSTRIAL AUTOMATION

EMERGENCY LIGHTING

MV ELECTRICAL PANELS AND SUBSTATIONS

ELECTRIC AND HYDROELECTRIC POWERSTATION

TECHNOLOGICAL INSTALLATIONS

MANUFACTURES

TRANSPORTS

OFFICES BUILDINGS

HOSPITALS

The range of UPS produces by **Zutronic**[®], goes from 1KVA to 200KVA, thus covering all customer needs.

The most recent series adopt the new 3-level IGBT technology that guarantees greater efficiency and a simple interface (HMI), for the control of data and operational functions.

Our communication interfaces use the latest technologies via SNMP / Internet / 4G, and soon 5G.

In this way all **Zutronic**[®] UPS can be controlled and monitored remotely, anywhere in the world.

1:1
PHASE
1-20 KVA

GDCA3

UPS ONLINE DOUBLE CONVERSION
3 LEVEL IGBT TECHNOLOGY UPS



3:1
PHASE
10 - 20 KVA

GDCA4

UPS ONLINE DOUBLE CONVERSION
3 LEVEL IGBT TECHNOLOGY UPS



3:3
PHASE
10-200 KVA

GDCA7

UPS ONLINE DOUBLE CONVERSION
3 LEVEL IGBT TECHNOLOGY UPS



GDC A3 SERIES

**1:1
PHASE**

**1-3 KVA
UPS
ONLINE**

- ▶ **3 UPS LEVEL**
- ▶ **KVA=0,9 KW**
- ▶ **Efficiency 96%**



FINANCE



TELECOMMUNICATION



ENERGY



MEDICAL



GOVERNMENT

**VFI
type**



**PF=
0,9**

**plug
&play**

The new series of **UPS GDC A3** is composed by a huge range of On-Line Double Conversion models, completely digital controlled, suitable to protect different kind of loads, from servers to computers networks, from medical instruments to security and surveillance systems.

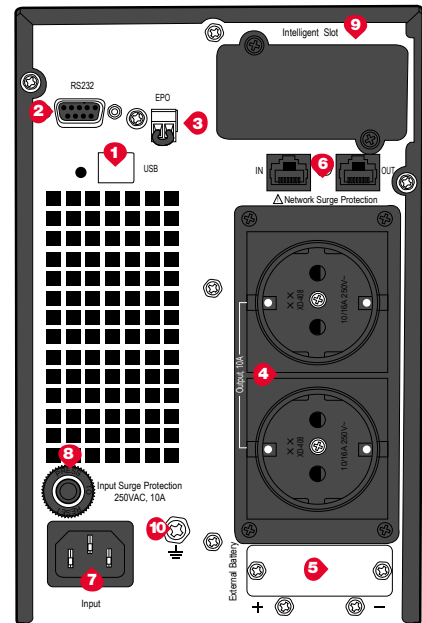
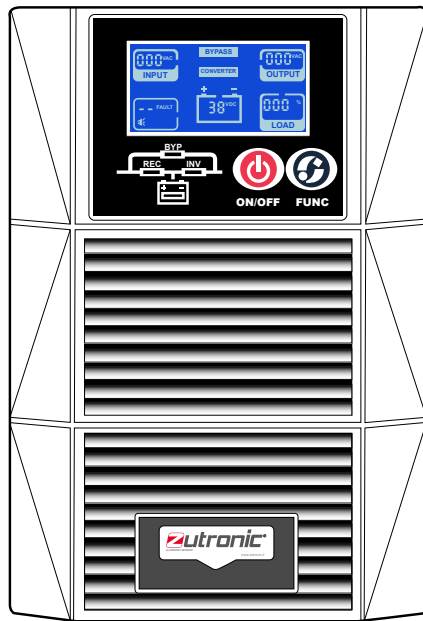
- Online UPS double conversion with output power factor 0.9
- Wide input voltage tolerance
- Manual Start by batteries
- Digital control batteries
- Cooling fans at a controlled speed
- EMI/RFI filters
- RS232 port for monitoring software
- Auto Electronics Protection
- Filter for network / fax / modem
- LCD display complete with all the informations
- Automatic battery testing
- Lightning and HF interference
- PFC technology for harmonic low input

GUARANTEED PROTECTION

Thanks to the availability of additional battery chargers, the backup time of the IST3 UPS may be extended up to 4 hours. The models can be connected in active and redundant parallel configuration, without any additional hardware or modification. It is possible to interface the UPS to protected computer through software and its own serial/USB cable (standard) or to intra and internet networks through an SNMP agent (optional).

GDC A3

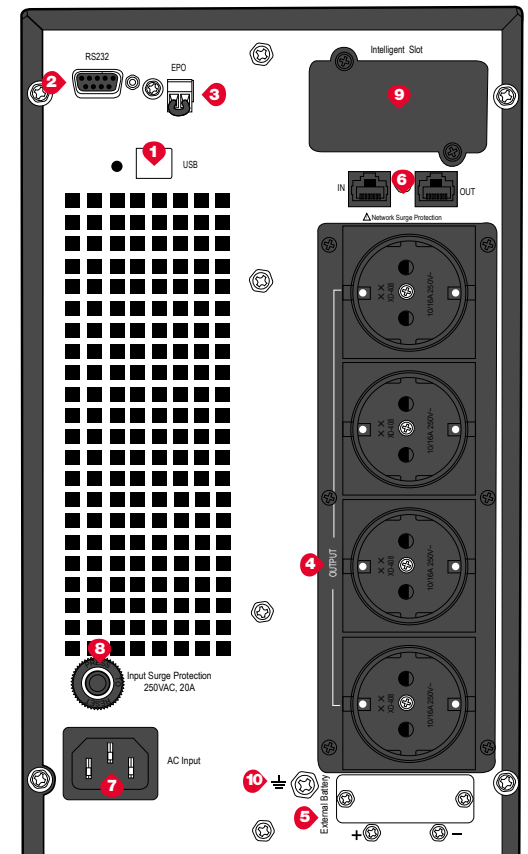
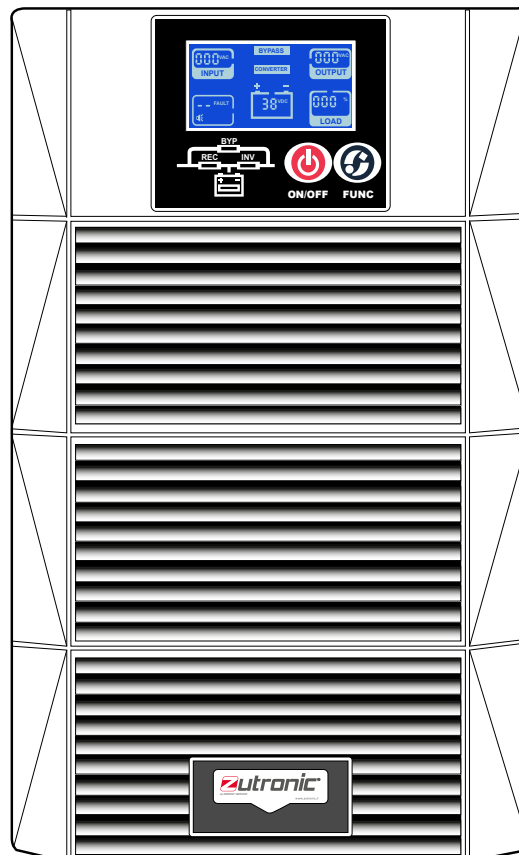
1 KVA



1. USB
2. RS232
3. EPO
4. Output
5. External battery slot
6. Network surge protection
7. Input
8. Input surge protection
9. Intelligent slot
10. Ground

GDC A3

3 KVA



1. USB
2. RS232
3. EPO
4. Output
5. External battery slot
6. Network surge protection
7. Input
8. Input surge protection
9. Intelligent slot
10. Ground

**1:1
PHASE****UPS
ONLINE****GDCA3
SERIES****GDCA3 1000****GDCA3 3000****INPUT**

CAPACITY	1KVA/0,9KW	3KVA/2,7KW
COLD START	YES, default frequency = 50Hz or settable	
ACCEPTABLE INPUT VOLTAGE	110VAC - 288VAC	
	100% load @ > 176VAC	
	80% load @ > 154VAC	
	70% load @ > 132VAC	
	50% load @ >110VAC	
PHASE	single phase in, single phase out	
INPUT POWER FACTOR	≥0,95	
INPUT CURRENT	4,8 A	14,4 A
INPUT FREQUENCY RANGE	40-70 Hz	
FREQUENCY ADAPTABLE	YES	

OUTPUT

OUTPUT PF	0,9	
NOMINAL VOLTAGE	220/230/240 VAC	
WAVEFORM	pure sine wave (double conversion ON LINE - VFI)	
VOLTAGE REGULATION	± 1%	
THD	<1% THD, linear load	
	<3% THD, not linear load	
FREQUENCY ONLINE	± 5Hz	
FREQUENCY BATTERY MODE	± 0,1Hz	
EFFICIENCY (LINE MODE)	92%	
ECO MODE	98%	
TRANSFER TIME		
- line mode to battery	0	
- Inverter/Bypass	2ms	
CHARGER	1A	1A
OVERLOAD CAPABILITY (LINE MODE)	105%-130% with switching to bypass after 1 minute	
	131%-150% with switching to bypass after 30 second	
	From 151% immediate switching to bypass	
CREST RATIO	3:1	

BATTERY

BATTERY TYPE	sealed lead acid maintenance free battery	
BATTERY VOLTAGE VDC	36	96

DISPLAY

DISPLAY	LED+LCD	
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INTERFACE

COMMUNICATION	DB9 port/RS232, dry contact (optional), USB port (optional), SNMP (optional)	
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MECHANICAL

NOISE (dB)	< 47dB	< 50dB
IP CLASS	IP20	
COLOR	BLACK	
DIMENSIONS L*P*A (mm)	145*353*228	190*427*336
NET WEIGHTS WITH BATTERIES (Kg)	12	26
PACKED GROSS WEIGHTS (Kg)	13	27

STANDARDS Standards European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Indioendent) VFI - SS - 111

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 **zutronic**[®]

GDC A3 SERIES

**1:1
PHASE**

**6-20 KVA
UPS
ONLINE**



▶ **3 UPS LEVEL**

▶ **KVA=KW**

▶ **Efficiency 96%**



DATA CENTER



HOME/OFFICE



TRANSPORT



INDUSTRY



EMERGENCY

**VFI
type**



**PF=
1,0**



service

The new series of **UPS GDC A3 6-20kVA** smart high frequency online UPS uses full digital control technology and the latest high frequency converter technology and it has high efficiency, high power factor and other advantages. It has significant energy savings and greatly reduces operation costs. It has integrated functions such as AC regulation, backup power supply, surge protection and other functions to provide protection to equipments in harsh power grid environments and to provide clean, safe, and stable power to loads.

- High efficiency, up to 96%
- KVA=KW, Output PF=1
- 3 levels Technology IGBT Rectifier and Inverter
- Self-aging function
- Intelligent digital charging management with maximum charger current up to 12A
- Smaller and compact size with higher power density
- Parallel up to 4 units
- Back up time up to 4 hours

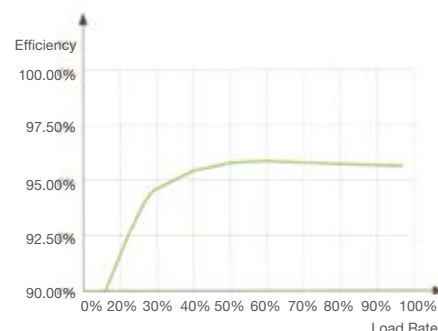
HIGH RELIABILITY

- Super wide input voltage range -60%~+25%
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi (<3%) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3 levels IGBT inverter ensures excellent performance

Intelligent fan control according the load capacity reduces the noise and prolongs fan service life

HIGH EFFICIENCY

- High efficiency in online mode ($\geq 96\%$) reduces heat dissipation and limits power consumption costs
- Efficiency > 99% in ECO mode gives significant costs reduction

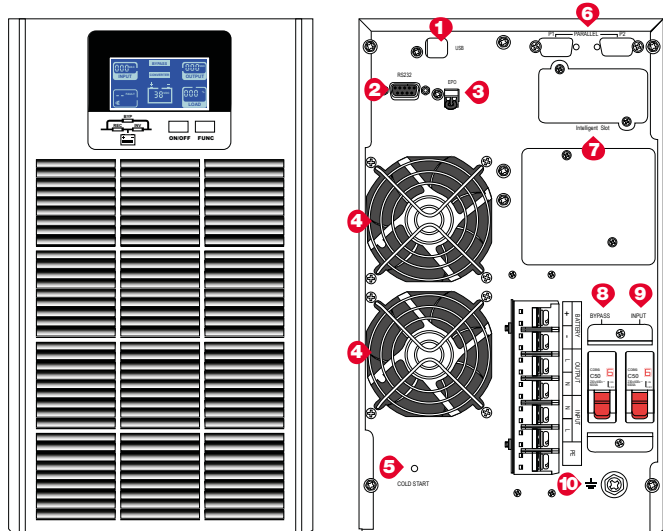


GDC A3

6-20KVA

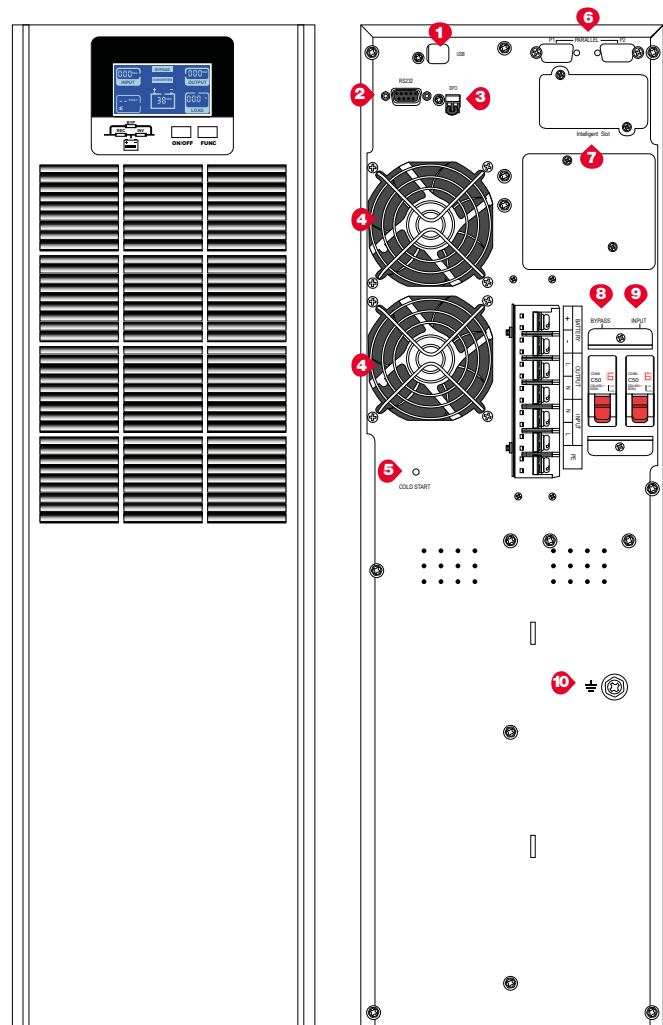
MODEL: 6K-L, 10K-L, 15K e 20K

1. USB
2. RS232
3. EPO
4. Fans
5. Cold Start
6. Parallel P1-P2
7. Intelligent slot
8. Bypass switch
9. Input switch
10. Ground



MODEL: 6K e 10K

1. USB
2. RS232
3. EPO
4. Fans
5. Cold Start
6. Parallel P1-P2
7. Intelligent slot
8. Bypass switch
9. Input switch
10. Ground



**1:1
PHASE****UPS
ONLINE****GDCA3
SERIES****GDCA3 6K****GDCA3 6K-L****GDCA3 10K****GDCA3 10K-L****INPUT**

CAPACITY	6KVA/6KW		10KVA/10KW	
COLD START	YES, default frequency = 50Hz or settable			
ACCEPTABLE INPUT VOLTAGE	110VAC - 288VAC			
	100% load @ > 176VAC			
	80% load @ > 154VAC			
	70% load @ > 132VAC			
	50% load @ >110VAC			
PHASE	single phase in, single phase out			
INPUT POWER FACTOR	≥0,99			
INPUT CURRENT	30 A / 220 V	34 A / 220 V	49 A / 220 V	53 A / 220 V
INPUT FREQUENCY RANGE	40-70 Hz			
FREQUENCY ADAPTABLE	YES			

OUTPUT

OUTPUT PF	1			
NOMINAL VOLTAGE	220/230/240 VAC			
WAVEFORM	pure sine wave (double conversion ON LINE - VFI)			
VOLTAGE REGULATION	± 1%			
THD	<2% THD, linear load			
	<5% THD, not linear load			
FREQUENCY ONLINE	± 5Hz			
FREQUENCY BATTERY MODE	± 0,1Hz			
EFFICIENCY (LINE MODE)	95%			
ECO MODE	98%			
TRANSFER TIME				
- line mode to battery	0			
- Inverter/Bypass	2ms			
CHARGER	1A	8A	1A	8A
OVERLOAD CAPABILITY (LINE MODE)	105%-130% with switching to bypass after 1 minute			
	131%-150% with switching to bypass after 30 second			
	Da 151% immediate switching to bypass			
CREST RATIO	3:1			

BATTERY

BATTERY TYPE	sealed lead acid maintenance free battery			
BATTERY VOLTAGE VDC	192V	192/216/240V adjustable	192V	192/216/240V adjustable

DISPLAY

DISPLAY	LED+LCD			
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INTERFACE

COMMUNICATION	DB9 port/RS232, dry contact (optional), USB port (optional), SNMP (optional)			
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MECHANICAL

NOISE (dB)	< 47dB		< 50 dB	
IP CLASS	IP20			
COLOR	BLACK			
DIMENSIONS L*P*A (mm)	190*426*705	190*426*336	190*485*705	190*485*336
NET WEIGHTS WITH BATTERIES (Kg)	56	14 without batteries	66	16 without batteries
PACKED GROSS WEIGHTS (Kg)	61	15	73	17

STANDARDS

Standards European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive
Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Indioendent) VFI - SS - 111

GDCA3 15K

GDCA3 20K

INPUT

CAPACITY	15KVA/15KW	20KVA/20KW
COLD START	YES, default frequency = 50Hz or settable	
ACCEPTABLE INPUT VOLTAGE	190VAC - 288VAC	
	100% load @ > 176VAC	
	80% load @ > 154VAC	
	70% load @ > 132VAC	
	50% load @ >110VAC	
PHASE	single phase in, single phase out	
INPUT POWER FACTOR	≥0,99	
INPUT CURRENT	68 A / 220 V	91 A / 220 V
INPUT FREQUENCY RANGE	40-70 Hz	
FREQUENCY ADAPTABLE	YES	

OUTPUT

OUTPUT PF	1	
NOMINAL VOLTAGE	220/230/240 VAC	
WAVEFORM	pure sine wave (double conversion ON LINE - VFI)	
VOLTAGE REGULATION	± 1%	
THD	<1% THD, linear load	
	<3% THD, not linear load	
FREQUENCY ONLINE	± 5Hz	
FREQUENCY BATTERY MODE	± 0,1Hz	
EFFICIENCY (LINE MODE)	94,4% @100% load, 95%70% load	94,2% @100% load, 95%50% load
ECO MODE	98%	
TRANSFER TIME	0	
CHARGER	5A	5A
OVERLOAD CAPABILITY (LINE MODE)	105%-110% with switching to bypass after 10 minutes	
	111%-125% with switching to bypass after 1 minute	
	126%-150% with switching to bypass after 30 second	
CREST RATIO	3:1	

BATTERY

BATTERY TYPE	sealed lead acid maintenance free battery	
BATTERY VOLTAGE VDC	192/240V adjustable	

DISPLAY

DISPLAY	LED+LCD	
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INTERFACE

COMMUNICATION	DB9 port/RS232, dry contact (optional), USB port (optional), SNMP (optional)	
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MECHANICAL

NOISE (dB)	< 53dB@<70% load - 66dB@>70% load	
IP CLASS	IP20	
COLOR	BLACK	
DIMENSIONS L*P*A (mm)	190*485*336	
NET WEIGHTS WITH BATTERIES (Kg)	33	
PACKED GROSS WEIGHTS (Kg)	34	

STANDARDS	Standards European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111	
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GDC A4 SERIES

3:1
PHASE

10-20 KVA
**ONLINE
UPS**



▶ **3 UPS LEVEL**

▶ **KVA=KW**

▶ **Efficiency 96%**



DATA CENTER



HOME/OFFICE



TRANSPORT



INDUSTRY



EMERGENCY

VFI
type



PF=
1,0



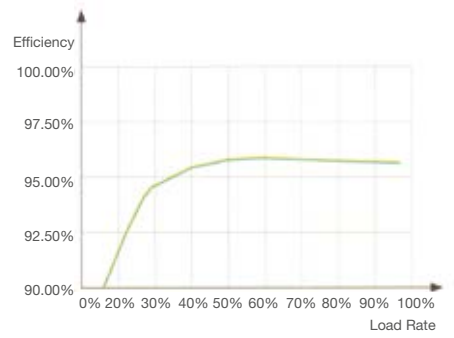
service

The new series of **UPS GDC A4** is composed by an Innovative True Three Level Technology, On-Line Double Conversion models, completely digital controlled, suitable to protect different kind of loads, from servers to computers networks, from medical instruments to security and surveillance systems.

- Advanced microprocessor control and IGBT inverter
- High energy efficiency and low waste heat dissipation
- Active battery management for fault prediction
- High efficiency up to 96%
- kVA=kW Output PF=1
- 3 levels Technology IGBT Rectifier and Inverter
- Self-aging function
- Intelligent digital charging management with maximum charger current up to 12A
- Smaller and compact size with higher power density
- Parallel up to 4 units
- Back up time up to 4 hours
- Optional specialised ups management software
- Failsafe internal bypass switch with manual control

HIGH EFFICIENCY

- High efficiency in online mode ($\geq 96\%$) reduces heat dissipation and limits power consumption costs
- Efficiency $> 99\%$ in ECO mode gives significant cost reduction



HIGH RELIABILITY

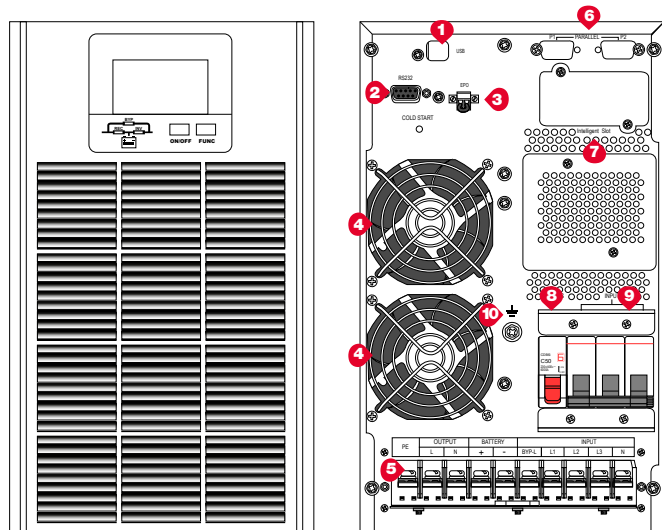
- Super wide input voltage range $-60\% \sim +25\%$
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi ($< 3\%$) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3-levels IGBT inverter ensures excellent performance

Intelligent fan control according the load capacity reduces the noise and prolongs fan service life

GDC A4

10-20kVA

1. USB
2. RS232
3. EPO
4. Fans
5. Terminal block
6. Parallel P1-P2
7. Intelligent slot
8. Bypass switch
9. Input switch
10. Ground



**3:1
PHASE****UPS
ONLINE****GDCA4
SERIES****GDCA4 10K****GDCA4 15K****GDCA4 20K****INPUT**

CAPACITY	10KVA/10KW	15KVA/15KW	20KVA/20KW
COLD START	YES, default frequency = 50Hz or settable		
	190VAC - 499VAC		
	100% carico @ > 305VAC		
ACCEPTABLE INPUT VOLTAGE	80% carico @ > 230VAC		
	70% carico @ > 228VAC		
	50% carico @ >190VAC		
PHASE	Three-phase in and single phase out		
INPUT POWER FACTOR	≥0,99		
INPUT CURRENT	20 A	30 A	40 A
INPUT FREQUENCY RANGE	40-70 Hz		
FREQUENCY ADAPTABLE	YES		

OUTPUT

OUTPUT PF	1		
NOMINAL VOLTAGE	220/230/240 VAC		
WAVEFORM	pure sine wave (double conversion ON LINE - VFI)		
VOLTAGE REGULATION	± 1%		
	<1% THD, linear load		
THD	<3% THD, not linear load		
FREQUENCY ONLINE	± 5Hz		
FREQUENCY BATTERY MODE	± 0,1Hz		
EFFICIENCY (LINE MODE)	94% @100% load, 94,5%70% load	94,4% @100% load, 95%70% load	94,2% @100% load, 95%50% load
ECO MODE	98%		
TRANSFER TIME	0		
CHARGER	5A	5A	5A
	105%-110% with bypass switching after 10 minutes		
OVERLOAD CAPABILITY (LINE MODE)	111%-125% with switching to bypass after 1 minute		
	126%-150% with switching to bypass after 30 second		
CREST RATIO	3:1		

BATTERY

BATTERY TYPE	sealed lead acid maintenance free battery		
BATTERY VOLTAGE VDC	192V	192/240V adjustable	

DISPLAY

DISPLAY	LED+LCD		
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INTERFACE

COMMUNICATION	DB9 port/RS232, dry contact (optional), USB port (optional), SNMP (optional)		
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MECHANICAL

NOISE (dB)	< 53dB@<70% load - 66dB@>70% load		
IP CLASS	IP20		
COLOR	BLACK		
DIMENSIONS L*P*A (mm)	190*485*336	190*485*336	
NET WEIGHTS WITH BATTERIES (Kg)	22	33	
PACKED GROSS WEIGHTS (Kg)	23	34	

STANDARDS Standards European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111

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zutronic[®]

GDC A7 SERIES

3:3
PHASE

10-200 KVA
UPS ONLINE



▶ **3 UPS LEVEL**

▶ **KVA=KW**

▶ **Efficiency 96%**



FINANCE



TELECOMMUNICATION



ENERGY



MEDICAL



GOVERNMENT

VFI
type

UPS ONLINE



TOWER

PF=
1,0

POWER FACTOR



SERVICE

The **UPS GDC A7**, series 3-Phase in, 3-Phase out UPS uses advanced 3 level inverter technology and digital technology for full interconnection and has advantages such high efficiency, high power density and occupies only a small amount of floor space. It provides safe, stable, clean, and environmentally friendly power to loads and can provide safe and reliable comprehensive protection to data centers, IT server rooms, precision instruments and others.

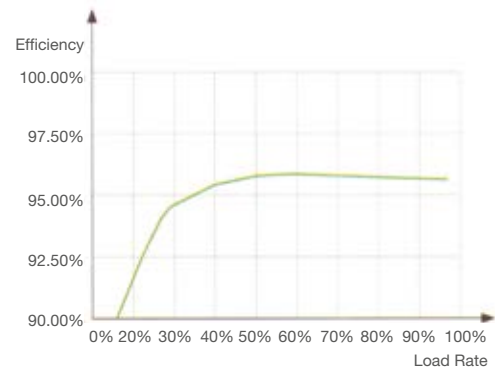
- 3 level IGBT technology UPS;
- Fully settable from display on site;
- Modular design;
- Self-cleaning function;
- Upgradable on site (50-200KVA);
- Capture wave-form graphic on display (black box);
- 96% Efficiency;
- Hot-swappable battery packs.
- Output power factor 1;

GUARANTEED PROTECTION

- The **UPS GDC A7** Series with Innovative 3 Levels Technology is a true on-line double conversion, three-phases UPS system that provides one of the highest level energy efficiencies in the industry.
- Three levels inverter & rectifier design **GDC A7** Series brings the newest power conversion technology and delivers efficiency up to 96% at 50-75% load operation which is the most common operating range.

HIGH EFFICIENCY

- High efficiency in online mode ($\geq 96\%$) reduces heat dissipation and limits power consumption costs
- Efficiency $> 99\%$ in ECO mode gives significant cost reduction



INTELLIGENT MANAGEMENT SMARTER OPERATION AND MAINTENANCE MANAGEMENT

- Modular design allows operations of maintenance and reparations to be quicker and safer.
- Replacing Power Module of an industrial **UPS three-phase GDC A7** has never been so easy and fast, in fact, the average time to replace the faulty component is less than 30 minutes, reducing all costs of reparations by 50%.
- Full digital interconnection, advanced dual DSP control technology, fast fault self-diagnosis, full redundancy coverage, no more single point of failure, and good system compatibility ensures reliable power supply to the load from an ultra-wide range of input from the power grid, while the smart generator control enables flexible adaptation to various complex power grid environments.

HIGH RELIABILITY

- Super wide input voltage range $-60\% \sim +25\%$
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi ($< 3\%$) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application
- 3-levels IGBT inverter ensures excellent performance

Intelligent fan control according the load capacity reduces the noise and prolongs fan service life

SELF-CLEANING FUNCTION

- **GDC A7** series **three-phase UPS**, the new self-cleaning mode periodically expels all the dust from the power module to reduce the risk of PCB failures due to dust corrosion by over 30%.
- The automatic self de-dusting mode in industrial UPS can be set daily, weekly, or periodically at the user's discretion based on company needs.

MODULAR DESIGN

The **GDC A7** are industrial **UPS** units with high power density, 200 kW; **GDC A7** occupies only 0.54 square meters of area and saves a lot of space in the client's server room while having an ecological design.

The three-phase **UPS GDC A7** uses the latest 3-level IGBT rectification technology and its input power factor approaches the unit's power factor; improves energy efficiency up to 96%

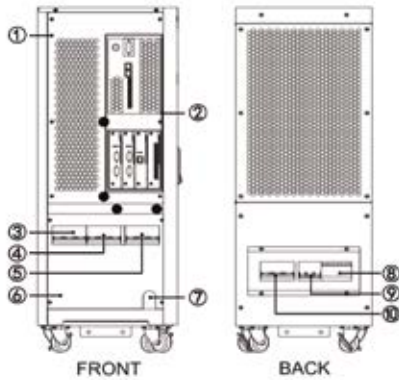
BLACK BOX

- The operating system incorporated in the computerized display can analyze and record the waveforms of each component of the Uninterruptible Power Supply online.
- Through the display it is possible to display all the waveforms passing through each component on the color screen, thus simplifying the localized identification of problems or distortions of any kind inside or outside the apparatus.

GDC A7

10-200KVA

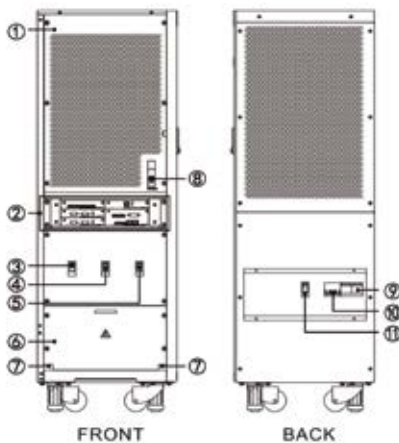
10-40KVA



1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



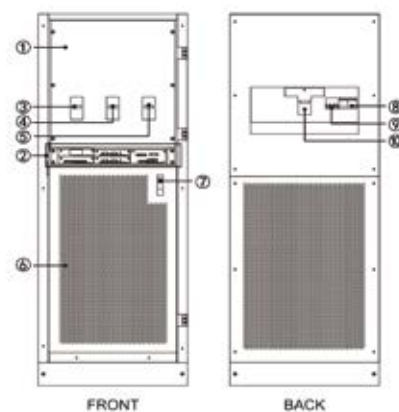
50-120KVA



1. TOP COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. WIRING COVER PLATE;
7. WIRING HOLES OF COMMUNICATION WIRES;
8. BATTERY SLOW START BOTTON;
9. SURGE PROTECTION DEVICE (OPTIONAL);
10. SURGE PROTECTION BREAKER (OPTIONAL);
11. MAINTENANCE BUPASS BREAKER.



160-200KVA



1. WIRING COVER PLATE;
2. CONTROL UNIT;
3. POWER BREAKER;
4. BYPASS BREAKER;
5. OUTPUT BREAKER;
6. BOTTOM COVER PLATE;
7. BOTTOM START BUTTON;
8. SURGE PROTECTION DEVICE (OPTIONAL);
9. SURGE PROTECTION BREAKER (OPTIONAL);
10. MAINTENANCE BUPASS BREAKER.



**3:3
PHASE****UPS
ONLINE****DOUBLE
CONVERSION****GDCA7
SERIES****GDCA7 10K**
GDCA7 10K-L**GDCA7 15K**
GDCA7 15K-L**GDCA7 20K**
GDCA7 20K-L**GDCA7 30K**
GDCA7 30K-L**GDCA7 40K**
GDCA7 40K-L**INPUT**

CAPACITY	10KVA/KW	15KVA/KW	20KVA/KW	30KVA/KW	40KVA/KW
INPUT VOLTAGE	380/400/415V				
INPUT CONNECTION	3 - 4W+PE				
POWER FACTOR	≥0,99				
INPUT CURRENT THD	<3%				
INPUT VOLTAGE WINDOW	-20% +15% full load				
FREQUENCY WINDOW	40-70Hz				

BYPASS INPUT

BYPASS VOLTAGE	380/400/415V				
BYPASS VOLTAGE WINDOW	-20% - +15% full load				
FREQUENCY WINDOW	± 5Hz				

BATTERY

BATTERY TYPE	VRLA				
BATTERY VOLTAGE VDC	±192/±216				
MAX CHARGING CURRENT	up to 20% of the ups rated power				
VOLTAGE PRECISION OF CHARGING	1%				

OUTPUT

OUTPUT PF	L-N:220/230/240V±1% L-L:380/400/415V±1%				
NOMINAL VOLTAGE	±0,5% (balance load) 1% (unbalance load)				
WAVEFORM	pure sine wave (double conversion ON LINE - VFI)				
VOLTAGE PRECISION	5% (0-100 increase in load)				
THD	THD<1%, (linear load) THD<5%, (not linear load)				
EFFICIENCY	up to 96%				
POWER FACTOR	1				
FREQUENCY	50/60Hz±3Hz, adjustable				
PHASE	as an input				
FREQUENCY PRECISION (FREE RUNNING)	±0.02%				
PHASE TOLERANCE	150° ±0.5°				
VOLTAGE UNBALANCE DEGREE	da 0,5Hz/s a 5Hz/s adjustable				
CREST RATIO	3:1				
OVERLOAD ALLOWED BY INVERTER	105% ~ 115% after 1 hour 130% after 10 min 131-150% after 1 min > 150% after 200 ms switching to bypass				

OTHERS

DISPLAY	TOUCH SCREEN + LED				
ALARMS	abnormal VAC input, low battery, overload, errors, etc.				
PROTECTION	short-circuit output, overload, high temperature, etc.				
EMI FILTER	IEC62040-2				
EMC REGULATIONS	IEC61000-4-2 (ESD), IEC61000-4-3(RS)IEC6100-4-4(EFT). IEC6100-4-5				
IP CLASS	IP20				
COMMUNICATION	RS485 modbus, dry contact (SNMP optional and RS232)				
OPERATION TEMPERATURE	0-40°C				
RELATIVE HUMIDITY	0-95% (non condensing)				
NOISE (DB)	<65dB				
WEIGHT (KG) INTERNAL BATT MODEL	240	250	250	350	350
WEIGHT (KG) EXTERNAL BATT MODEL	120	120	120	120	120
DIMENSION (W*D*H) (MM) INTERNAL BATT MODEL	320*840*1030	320*840*1030	320*840*1030	320*840*1400	320*840*1400
DIMENSION (W*D*H) (MM) EXTERNAL BATT MODEL	320*840*867	320*840*867	320*840*867	320*840*867	320*840*867

**3:3
PHASE****UPS
ONLINE****DOUBLE
CONVERSION****GDCA7
SERIES**

	GDCA7 50K	GDCA7 80K	GDCA7 100K	GDCA7 120K
INPUT				
CAPACITY	50KVA/KW	80KVA/KW	100KVA/KW	120KVA/KW
INPUT VOLTAGE	380/400/415V			
INPUT CONNECTION	3 - 4W+PE			
POWER FACTOR	≥0,99			
INPUT CURRENT THD	<3%			
INPUT VOLTAGE WINDOW	-20% +15% full load			
FREQUENCY WINDOW	40-70Hz			
BYPASS INPUT				
BYPASS VOLTAGE	380/400/415V			
BYPASS VOLTAGE WINDOW	-20% - +15%full load			
FREQUENCY WINDOW	± 5Hz			
BATTERY				
BATTERY TYPE	VRLA			
BATTERY VOLTAGE VDC	±192/±216			
MAX CHARGING CURRENT	up to 20% of the ups rated power			
VOLTAGE PRECISION OF CHARGING	1%			
OUTPUT				
OUTPUT VOLTAGE	L-N:220/230/240V±1% L-L:380/400/415V±1%			
VOLTAGE PRECISION	±0,5% (balance load) 1% (unbalance load)			
OUTPUT VOLTAGE TRANSIENT	5% (0-100% load step)			
THD	THD<1% (linear load) THD<5% (non linear load)			
EFFICIENCY	up to 96%			
POWER FACTOR	1			
FREQUENCY	50/60Hz±3Hz, adjustable			
PHASE	as an input			
FREQUENCY PRECISION (FREE RUNNING)	±0.02%			
PHASE TOLERANCE	150° ±0.5°			
VOLTAGE UNBALANCE DEGREE	da 0,5Hz/s a 5Hz/s adjustable			
CREST RATIO	3:1			
OVERLOAD ALLOWED BY INVERTER	105% ~ 115% after 1 hour 130% after 10 min 131-150% after 1 min > 150% after 200 ms switching to bypass			
OTHERS				
DISPLAY	TOUCH SCREEN + LED			
ALARMS	abnormal VAC input, low battery, overload, errors, etc.			
PROTECTION	short-circuit output, overload, high temperature, etc.			
EMI FILTER	IEC62040-2			
EMC REGULATIONS	IEC61000-4-2 (ESD), IEC61000-4-3(RS)IEC6100-4-4(EFT). IEC6100-4-5			
IP CLASS	IP20			
COMMUNICATION	RS485 modbus, dry contact (SNMP optional and RS232)			
OPERATION TEMPERATURE	0-40°C			
RELATIVE HUMIDITY	0-95% (non condensing)			
NOISE (DB)	<65dB			
WEIGHT (KG) WITHOUT BATTERIES	160	210	242	242
DIMENSIONS (W*D*H) WITHOUT BATTERIES	450*840*1400	450*840*1400	450*840*1400	450*840*1400

All information contained are purely indicative, specifications or designs can be changed at anytime without notice by **Zutronic** and cannot be used to form any contractual obligations.

**3:3
PHASE****UPS
ONLINE****DOUBLE
CONVERSION****GDCA7
SERIES**

	GDCA7 140K	GDCA7 160K	GDCA7 200K
INPUT			
CAPACITY	140KVA/KW	160KVA/KW	200KVA/KW
INPUT VOLTAGE	380/400/415V		
INPUT CONNECTION	3 - 4W+PE		
POWER FACTOR	≥0,99		
INPUT CURRENT THD	<3%		
INPUT VOLTAGE WINDOW	-20% +15% full load		
FREQUENCY WINDOW	40-70Hz		
BYPASS INPUT			
BYPASS VOLTAGE	380/400/415V		
BYPASS VOLTAGE WINDOW	-20% - +15% full load		
FREQUENCY WINDOW	± 5Hz		
BATTERY			
BATTERY TYPE	VRLA		
BATTERY VOLTAGE VDC	±192/±216		
MAX CHARGING CURRENT	up to 20% of the ups rated power		
VOLTAGE PRECISION OF CHARGING	1%		
OUTPUT			
OUTPUT VOLTAGE	L-N:220/230/240V±1% L-L:380/400/415V±1%		
VOLTAGE PRECISION	±0,5% (balance load) 1% (unbalance load)		
OUTPUT VOLTAGE TRANSIENT	5% (0-100% load step)		
THD	THD<1% (linear load) THD<5% (non linear load)		
EFFICIENCY	up to 96%		
POWER FACTOR	1		
FREQUENCY	50/60Hz±3Hz, adjustable		
PHASE	as an input		
FREQUENCY PRECISION (FREE RUNNING)	±0.02%		
PHASE TOLERANCE	150° ±0.5°		
VOLTAGE UNBALANCE DEGREE	da 0,5Hz/s a 5Hz/s adjustable		
CREST RATIO	3:1		
OVERLOAD ALLOWED BY INVERTER	105% ~ 115% after 1 hour 130% after 10 min 131-150% after 1 min > 150% after 200 ms switching to bypass		
OTHERS			
DISPLAY	TOUCH SCREEN + LED		
ALARMS	abnormal VAC input, low battery, overload, errors, etc.		
PROTECTION	short-circuit output, overload, high temperature, etc.		
EMI FILTER	IEC62040-2		
EMC REGULATIONS	IEC61000-4-2 (ESD), IEC61000-4-3(RS)IEC6100-4-4(EFT). IEC6100-4-5		
IP CLASS	IP20		
COMMUNICATION	RS485 modbus, dry contact (SNMP optional and RS232)		
OPERATION TEMPERATURE	0-40°C		
RELATIVE HUMIDITY	0-95% (non condensing)		
NOISE (DB)	<65dB		
WEIGHT (KG) WITHOUT BATTERIES	242	320	350
DIMENSIONS (W*D*H) WITHOUT BATTERIES	450*840*1400	600*900*1600	600*900*1600

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ACCESSORIES

DRY CONTACT



The dry contact card allows to have a series of normally open or normally closed dry contacts (voltage free) to indicate the following operations of the UPS:

- Bypass mode
- Absence of the mains
- Inverter mode
- Problems to the batteries
- Presence of a generic alarm

It is also possible to perform a manual or automatic remote shutdown of the UPS

SNMP NET AGENT

Simple Network Management Protocol (SNMP) was created to address the problem of wide area network management. SNMP is a standard protocol that is part of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite which allows all network devices to transmit management variables across enterprise wide networks.

SNMP is vendor and platform-independent and establishes guidelines for what information will be collected, how it will be structured and how the messages are formed from the network device to the manager and back. Network devices then gather information into a management information base (MIB).

A user's operating system software uses SNMP management software to collect and display the MIB data in an easily understood format.



SOFTWARE VIEW POWER PRO

Check the automatic shutdown and programmed to TM windows and Linux applications. Serial cable included in the package.



SERVICES



POST SELL ASSISTANCE

Zutronic can offer several level of assistance based on the needs of the final customer and of the system itself.

Our contracts offer an efficient protection for all installations type. Maintenances activities are performed by our specialized technicians or by authorized company of the territory.

Below the services offered:

- Maintenance agreement (with several level of assistance, that can be also multi-annual), for UPS and Rectifiers battery charger
- Warranty extension connected to the maintenance agreement
- Planned test of batteries charge (capacity and efficiency test)
- Training to the employees that will have in charge the leading of the system
- Old batteries substitution and their disposal
- Phone assistance (or directly to the site) by our specialized technician
- Plant survey

The advantages of a maintenance agreement are:

- Reduction of loss of production and system stop costs
- Guaranteed response time
- Technical report for each intervention
- Historical report of all the activities at the site
- Only original spare parts use
- Certified tools use
- Site assistance by specialized and authorized technicians

SERVICES OFFERED BY



Technologic devices require a special attention during the set in service and long their working on the site. This is the reason why **Zutronic** company, directly or through local partners, may offer several dedicated services:

PUTTING INTO SERVICE

It is the activity that, performed by a specialized technician following a precise procedure decided by the Company Quality System, verify all the working conditions both of the site and of the machine as well. Then the first start can be performed.

Briefly, the putting into service consists in:

- Verification that all the site installation conditions comply
- Visual verification of all the devices and batteries to identify possible damages
- Verification that the devices are correctly connected to the system
- Verification that the batteries are correctly connected
- Verification that all security legislation have been fulfilled
- Verification that all security devices (upstream and downstream the machine) have been correctly placed
- Verification of the power supply system
- First start of the machine and check of all working parameters
- Test with a real load
- Simulation of power blackout and return
- Eventual test of communication devices

The advantages of a Putting into service assisted by our technician are:

- Certainty of the proper working of the machine
- Training of the employees that will have incharge the leading of the site
- Longer life of the system
- Customization of the working parameters due to the real needs of the system
- Possibility to extend the warranty

BATTERIES SUBSTITUTION

Batteries substitution requires a specific knowledge to guarantee the system efficiency and to prevent serious damages due to a wrong connection. You must keep in mind that just putting the wrong polarity can cause an irreversible damage to the power continuity system.

Zutronic is able to substitute all types of batteries, ensuring the correct return of the service and a correct assistance to old batteries disposal.

ISO9001:2015

BUREAU VERITAS
Certification



zutronic[®]

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