

# GDC**A4** S E R I E S

**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**



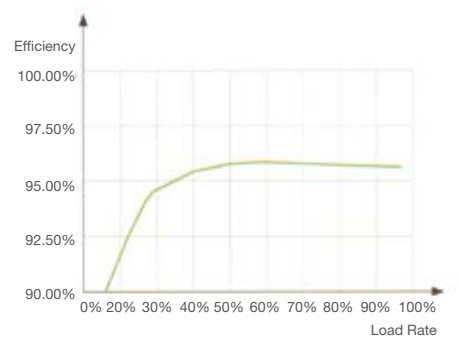
service

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

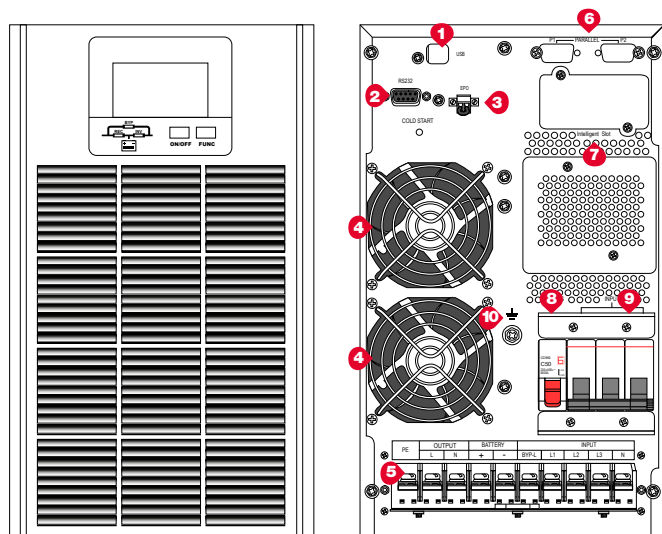
- Super wide input voltage range  $-60\% \sim +25\%$
- Robust overload ability
- Dual system control card prevent single failure point
- IGBT rectifier benefit with low THDi ( $< 3\%$ ) and high power factor
- Bus synchronization control function provides reliable high power for the dual bus application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



## DATA SHEET

**GDCA4 10K**
**GDCA4 15K**
**GDCA4 20K**

### INPUT

CAPACITY	10KVA/10KW	15KVA/15KW	20KVA/20KW
COLD START	YES, default frequency = 50Hz or settable		
ACCEPTABLE INPUT VOLTAGE	190VAC - 499VAC		
	100% carico @ > 305VAC		
	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%		
THD	<1% THD, linear load		
	<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
OVERLOAD CAPABILITY (LINE MODE)	105%-110% with bypass switching 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	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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**ISO9001:2015**

**BUREAU VERITAS**  
Certification

