

GDC A3 S E R I E S

**1:1
PHASE**

**6-20 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 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

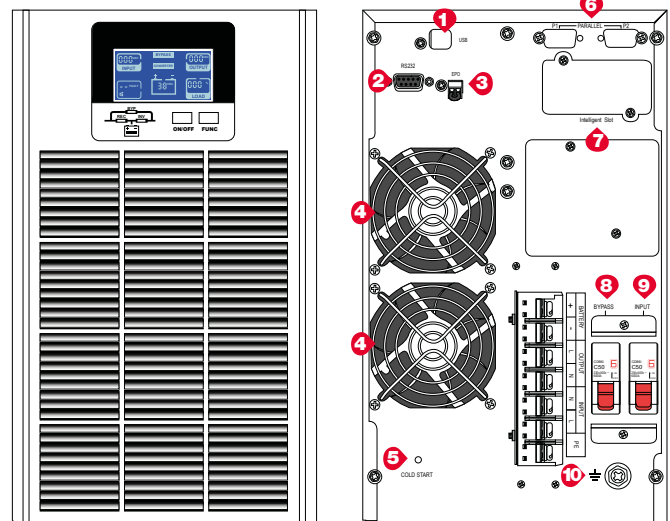
- High efficiency in online mode ($\geq 96\%$) reduces heat dissipation and limits power consumption costs
- Efficiency > 99% in ECO mode gives significant costs reduction

GDC A3

6-20KVA

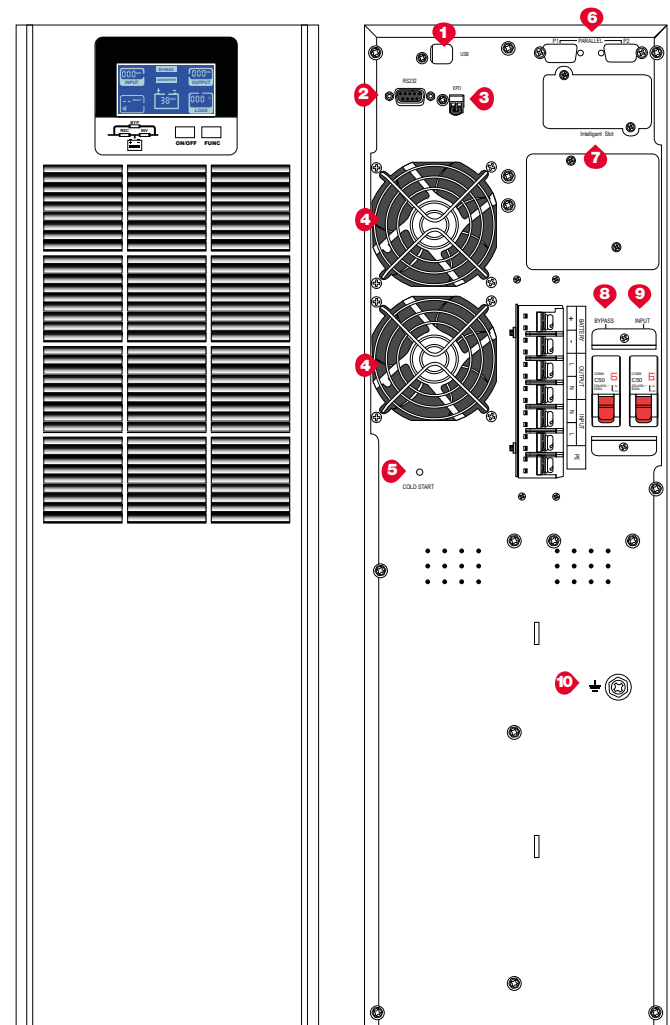
MODEL: 6K-L, 10K-L, 15K e 20K

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



DATA SHEET

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

DATA SHEET

GDCA3 15K

GDCA3 20K

INPUT

CAPACITY	15KVA/15KW	20KVA/20KW
COLD START	YES, default frequency = 50Hz or settable	
	190VAC - 288VAC	
	100% load @ > 176VAC	
ACCEPTABLE INPUT VOLTAGE	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
	105%-110% with switching to bypass 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	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 Indioendent) VFI - SS - 111
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ISO9001:2015

BUREAU VERITAS
Certification

