

ALL PSU Ltd

B300-1U

1kVA ON-LINE • DOUBLE CONVERSION



Unique Design

The B300-1U rack mount UPS is designed for critical server applications. Unlike some well known brands the B300-1U is a genuine Double Conversion UPS, phrases like “Active On-Line” or “On-Line, Line Interactive” are not applicable to the 1U. These expressions are just covers for the inadequacy of not being true double conversion machine.

We believe the B300-1U to be the smallest “On-Line” rack mountable UPS available. Being so small it allows users to maximise space without compromising the technical performance of the UPS.

Despite the compact size of the B300-1U it is still feature rich, most information about the operational condition of the UPS and load can be gleaned from the front mounted LCD display. Using the same display other parameters can be set, this includes power management of the output sockets. The user can then decide which

hardware (under power fail conditions) will be supported by the UPS. This function allows for non essential loads to be shed meaning the UPS will run for longer.

Another critical design feature allows for the batteries to be removed without disturbance to the load, once the batteries have been replaced they will benefit by a fully regulated DSP charging system.

The B300-1U is often used in applications where there are many racks in one location thus easy management of multiple installations is essential. To accommodate this the B300-1U can be connected to any compatible network via an optional SNMP card, once the SNMP card has been installed the IT manager can monitor performance via a remote PC or via the internet. Each UPS can be configured to send emails in the event of a fault or a change in the electrical supply.



B300-1U

TECHNICAL SPECIFICATIONS

Standard Properties

- Cold start function (DC power on)
- Lightning and surge protection
- Battery replacement warning
- Schedule shutdown & reboot
- Hot swappable battery by user
- Emergency Power Off function
- Battery count down display
- LCD display front panel
- Optional SNMP Card slot
- Wide input voltage range
- Power factor correction
- Manual bypass setting
- Free run mode setting
- EMI/RFI noise filter
- Support USB communication
- Multiple language LCD display
- On line output voltage selector

SPECIFICATIONS	
19" Rack-Mount Model	VGD-700 -RM
INPUT	
Capacity (VA)	1000VA
Capacity (W)	700W
Voltage	208V/220V/230V/240V
Voltage/Range	160 - 276V
Frequency	50 / 60 Hz Auto Sensing
OUTPUT	
Frequency (on battery)	50 / 60 Hz +/-0.5%
Transfer Time	0 ms
Overload Recovery	Auto transfer to UPS
High Efficiency Mode (AC to AC)	> 95 %
Line Mode	> 86%
UPS Green Mode	Energy saving function (No Load Shutdown)
UPS Design Technology	On-Line / Fully digitized microprocessor controlled
Output Wave Form	Sinewave
Harmonic Distortion	< 3% of T.H.D. at linear load
Crest Factor	3 : 1
PROTECTION & FILTERING	
Surge Protection	120V (IEEE C62.41) / 230V (IEEEC61000-4-5 level 3)
Overload Protection	125% for 1 minute and 150% for 10 seconds
Short Circuit	UPS output cut off immediately or input fuse / circuit breaker protection
SYSTEM DISPLAY / WARNING	
Visual Display (LED Model)	UPS on(green), line-mode(green), battery mode(yellow), bypass(yellow), fault(red)
Visual Display (LCD Model)	Input / output voltage, input / output frequency, on-line mode, back up mode, battery capacity, load level
Audible Alarm (Battery Back-Up)	Beep every 5 sec
UPS Fault	Continuous beeping sound and LCD display
Communication	RS-232 Serial Port and USB
BATTERY	
Type	Sealed, maintenance-free lead acid batteries
DC Voltage (V) Battery (1U)	24V / 6V7.2AH x 4
Typical Recharge Time to 90% Full	3 hours
Management	Self-test, adjustable battery transfer points and alarm settings
Battery Protection	Cut off without draining any current when battery is low
Cold Start (DC Start)	YES
Back Up Time 19" Rack mount	Full Load v1U = 7 min
Back Up Time 19" Rack mount	Half Load 1U = 15 min
PHYSICAL	
Input Inlet	IEC 320 (230V)
Receptacles	IEC 320 (230V)
Total Output Sockets	4 (230V)
Rack-Mount Dimensions mm (inch)	428 x 525 x 44 (16.9" x 20.7" x 1.7") 1U
19" rack mount	1U = 15.0 (33.0)
ENVIRONMENT	
Operating Temperature	0 - 40 deg C / 32 - 104 deg F
Storage Temperature	-20 - 50 deg C / -4 - 122 deg F
Altitude	3,500 meters max
Audible Noise (1 meter from surface)	< 40 dBA
Relative Humidity	0 - 95% humidity, non-condensing
CONFORMANCE	
Safety	UL 1778, CE
EMC (EMS / EMI)	IEC 61000-4, FCC Part 15, CISPR 22
Warranty policy	Warranty policy may vary depends on region

The data and text contained within this brochure are for general information only and can not be deemed as definitive. specifications can change without notice.

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