

Battery Backup Time And Discharge Process - Toshiba UNINTERRUPTIBLE POWER SYSTEM 1600XP Installation And Operation Manual

Single phase - 3.6/6/8/10/14/18/22 kva

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Battery Backup Time and Discharge Process

the UpS batteries provide approximately 5-7 minutes of back-up time depending on the 1600Xp unit kVA rating. these times are valid when the unit is operating under full load and at the rated power factor. the exact length of these times will depend on the UpS model used, condition of the batteries, amount and type of load, temperature and other variables. See battery backup time in 'UPS Specifications' beginning on

page

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the following illustration graphically shows the battery discharge process at full load conditions.

CURRENT

I

MAX

I

MIN

Battery Low Voltage Tolerances

excessive discharge will cause the UpS battery voltage to drop. the chart shown below lists the voltage level at which each UpS low-voltage alarm will sound and at what level the low-voltage condition will cause the unit to automatically shut down.

UPS Capacity
TOSHIBA
 Leading Innovation >>>

nominal voltage (V_{nom})
 Alarm voltage (V_{low})
 Shutdown voltage (V_{min})

26

VOLTAGE

V

NOM

V

LOW

V

MIN

100%

BATTERY CAPACITY

3.6 kVA

6 kVA

8 kVA

144 Vdc 216 Vdc 288 Vdc 288 Vdc 288 Vdc 288 Vdc

130 Vdc 192 Vdc 246 Vdc 246 Vdc 246 Vdc 246 Vdc

114 Vdc

170 Vdc 227 Vdc 227 Vdc 227 Vdc 227 Vdc

SHUTDOWN

20%

0%

10 kVA

14 kVA

18 kVA

1600Xp Series installation and operation manual

22 kVA

288 Vdc

246 Vdc

227 Vdc

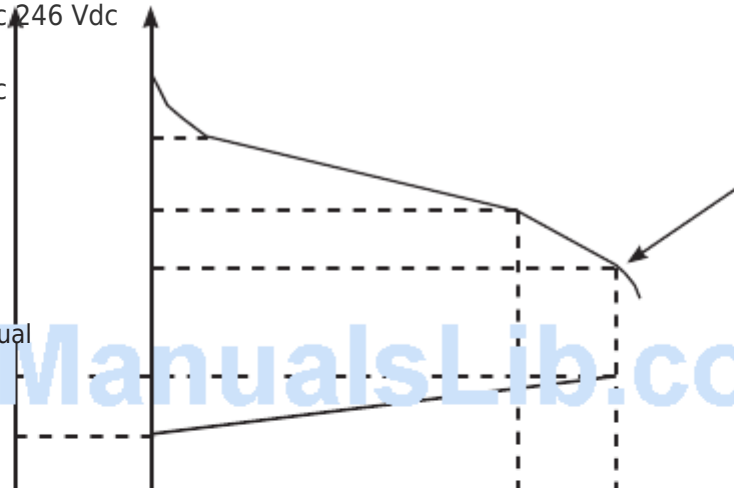


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