

VRLA Battery Information

Here are two points that should be noted when choosing a power supply for use with VRLA (Valve Regulated Lead Acid) batteries.

Always allow spare current: recharging batteries puts extra load onto the PSU (Power Supply Unit). Allow at least 50% extra (i.e. 1.5A PSU for a 1A load) when the standby is up to 8 hours. Longer standby times will require even more spare current.

To meet a standby time specification, (e.g. BS4737), provide at least 25% and up to 100% more battery capacity than calculated to allow for losses due to discharge rate, battery age, freezing temperatures and recharge time, all of which reduce the available capacity.

Leaving batteries discharged for days may reduce their capacity permanently. Store batteries fully charged. Monitor and recharge at 6 month intervals.

In case of extended mains failure ALWAYS recharge at the earliest opportunity. Remove the battery and charge elsewhere if necessary. Avoid high temperatures. Capacity may be lost permanently after prolonged periods.



Battery Stand-By Time vs Load

