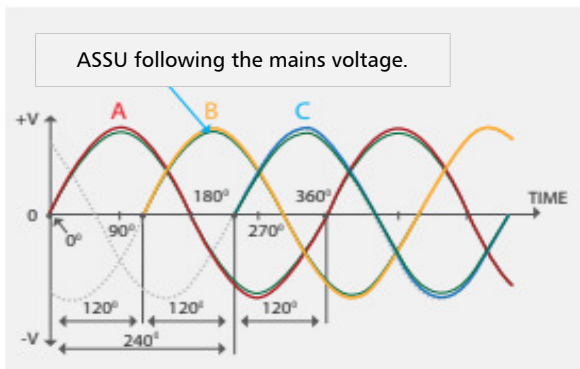


Write-up of Active Shunt Solar UPS ASSU-303

Active Shunt Solar UPS achieves zero-transfer time using the Active Shunt topology which...

..Saves approximately 35%-40% more power than any other Higher Capacity Solar bi-directional Hybrid Solar Inverter. This is a huge savings considering the amount invested on solar panels.

DSP based, mains synchronized Active Shunt Solar UPS actively tracks & follows the utility power supply in Active Shunt mode without supplying any power to the load in the mains mode as shown in the graph, until the voltage drops to a pre-determined voltage achieving Zero transfer time without double conversion.



Winner of the Best in-house R&D
among the UPS manufacturers
in India by SoftDisk for the year 2018-19

ASSU starts supplying the power to the load with no interruption; floats within the utility power wave, with its voltage just under the mains voltage.

Conventional High capacity SOLAR PCU available in the market is of Double conversion topology in order to ensure seamless transfer of loads, which **increases the electricity bills by 35%-40% due to the double conversion losses** when working on mains. (The total instead of being powered directly will be powered through the UPS AC-DC and again DC-AC achieving a maximum efficiency of 94% on 100% full load-but in practical conditions there never exists a condition of 100% loading. The typical load on the UPS at sites were recorded to be average 50%, and the Double conversion Solar PCU efficiency at 50% load will fall to 65%-70%, **energy saved by Solar is hence depleted by 30%.**