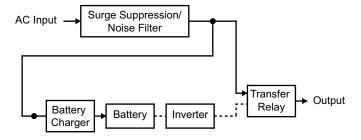


## Selecting a UPS

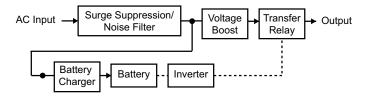
The SolaHD UPS product line consists of four topologies and classes of power protection:

**DC** topology provides cost effective, efficient back-up power for 24 Vdc applications. The SolaHD DC UPS will support the load during AC power loss or power supply failure.

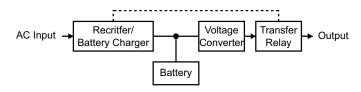
**Off-Line** topology (also called stand-by) is a cost-effective UPS choice for small, less critical, stand-alone applications such as isolated PLC, PCs and peripherals. Network communications are a useful option.



**Line-Interactive** topology provides highly effective power conditioning plus battery back-up. This is particularly applicable in areas where power outages are rare, but where there are frequent power fluctuations. Network communications are available and sometime necessary.



The **On-Line** alternative provides the highest levels of power protection, conditioning and power availability. True on-line topology is accomplished with double conversion technology. Network communications are often necessary to protect mission-critical applications.



How to choose the appropriate UPS for your application:

1. Add up the maximum electrical power requirements for all equipment to be protected. To obtain the power rating, multiply: Volts x Amps = VA. Volt and Amp ratings can be found on the nameplate of your equipment.

Subtotal (VA) Future Growth (VA) * Total VA [Subtotal (VA) + Future Growth (VA)] Total Watts **	VA x Amperes
Future Growth (VA) * Total VA [Subtotal (VA) + Future Growth (VA)]	
Future Growth (VA) * Total VA [Subtotal (VA) + Future Growth (VA)]	
Future Growth (VA) * Total VA [Subtotal (VA) + Future Growth (VA)]	
Total VA [Subtotal (VA) + Future Growth (VA)]	
Appropriate Model (Based on both Total VA and Watts Calculations)	

- 2. Choose the level of protection appropriate to your application from Table 1.
- 3. Turn to the series indicated at the top of the matrix for sizes, specifications and other ordering information.
- When sizing the UPS, allow for future expansion. If not available, it is recommended to allow for at least 25% growth.
- Total Watt = Total VA x Power Factor (P.F.) for AC Power only. If power factor is not available, simply multiply VA by 0.65.



## **Selection Table**

Feature	Benefits	DC	Off-Line		Line-Interactive	On-Line	
		SDU DC	SDU AC	S1K	S3K	S4K	S5K
Power Rating	-	240-480 VA DC	500-850 VA	320-1500 VA	700-1440 VA	700 VA - 10 kVA	4 kVA - 20 kVA
Battery Back–up	Stop power interruptions from destroying data and work in progress	•	•	•	•	•	•
Surge Protection & Filtering	Prevent surges, spikes and noise from damaging your hardware		•	•	•	•	•
Voltage Regulation	Keep working during power sags, brownouts and high line voltage without draining your battery.			(on 320, 520 & 1500 VA models only)	•	•	•
Sinewave Output	More compatible with sensitive loads				•	•	•
Extended Battery Option	Work through the longest blackouts with the extended battery option	•				•	•
Hardwired Input & Output Possible	Easy, permanent installation with less chance of "accidental" misuse.	•	•			•	•
On–Line "Zero Transfer Time" Performance	Mission-critical work requires on-line premium power protection.	•				•	•
Page Number		60	64	66	68	70	93