

## UPS comparison: Powersafe v/s Powercom v/s Champion v/s Mercury

Make →	Powersafe	Powercom	Champion	Mercury	Remark
Features ↓					
Model Number	UPS600V3	IND-600A	UPS-600	Classic 600	The originality of the report
Serial Number	KPY436649885	20294090606	WU06101111	L600-14474	
Unit Look	<b>Attractive Silver Black</b>	Single Black Color	Traditional Powder Coated	Black Metallic Finish	Looks is very important to the user.
RS232 port	<b>Yes</b>	No	No	No	Powersafe has optional UPS monitoring Software
Tel/Modem Surge	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	Internet Protection: This is an important feature for marketing
Output sockets	3 UPS	3 UPS + <b>1 Bypass</b>	3 UPS	2 UPS + <b>1 Bypass</b>	Bypass socket is a big confusion to the user.
Protection	<b>MCB</b>	<b>MCB</b>	Fuse	Fuse	Need to replace the fuse which is difficult to find at site!
Battery	12V/7.2AH <b>CSB</b> make	12V7.2Ah <b>CSB</b> make	12V7.2Ah Champion make	12V/8.2AH (7.2 remarked)	CSB is time tested battery for long life and full backup.
Xmer Stack	3" x 1.75" (=5.25)	3.5" x 1.5" (=5.25)	3.5" x 1.5" (=5.25)	3.75" x 1.375" (=5.16)	This is size of the Transformer, bigger is better
MOSFET	CEP83A3 x 4 on 1 Big Heatsink	IRFZ44 x 4 On 2 Heatsinks	2N04L03 x 2 on 2 Heatsinks	IRFZ44 x 4 on 4 Heatsinks	Number of devices and Rating of device will decide the power handled by the UPS.
Switching Mode	<b>Bridge</b>	Push-Pull	Push-Pull	Push-Pull	Technical Term, Bridge is better but Push pull is popular for 600VA
Control Design	<b>Microcontroller Based</b>	<b>Microcontroller based</b>	Outdated SG3524 based	Discrete IC Based	Microcontroller based designs are more efficient and reliable
PCB Type Quality	Single Sided	Single Sided	Single Sided	Single Sided	All are same
Components	<b>SMD</b>	Through Hole	Through Hole	Through Hole	Powersafe is using latest SMD technology
Input Range	<b>140-300V AC</b>	<b>140-300VAC</b>	160-280VAC	148-280VAC	Mercury & Champion has limited range
Number of relays	4	4	4	4	More relays means more regulation and control
Cold Start: 15" CRT Monitor	Passed	Passed	Passed	Passed	Cold start: When there is no power and you want to start PC on battery.
17" CRT Monitor	Passed	Passed	Passed	Passed	
Off Mode Charging	Yes	Yes	Yes	Yes	Either of these function is must.
No Load Cut-off	Yes	Yes	<b>No</b>	<b>No</b>	
Backup Time in minutes with P4 System and 17" CRT LG monitor					
Backup Time	<b>15min</b>	8min	9min	11min	Powersafe gives more backup on the same load
Inverter/Generator Compatibility					
Inverter	Yes	Yes	<b>No</b>	Yes	Works on Powersafe Inverter?
Generator	Yes	Yes	Yes	Yes	Works on Home Genset?