

# 80 - UPS Application Design Guidance

## Static UPS

### Technical Data - AP Premium

#### Input

Voltage:	380 - 415V 50Hz
Voltage Tolerance:	± 15%
Power Factor at Rated Voltage:	> 0.95
Current Harmonic Distortion: (Normal operation)	> 3%

#### Output

Voltage:	380 - 415V 50Hz
Voltage Tolerance:	± 1% Steady State
Frequency Tolerance:	± 1%
Overload Capacity: (Switching to Bypass)	1350% for 100 ms 188% for 10 Minutes
Efficiency:	Up to 95%

#### General

Operational Altitude:	Up to 1000m above sea level
Ambient Temperature:	0 - 35°C daily average
Relative Humidity:	5 - 95% non condensing
Degree of Protection:	IP20

## Static UPS Guide to Dimensions & Weights

	100 kVA L x W x H	120 kVA L x W x H	160 kVA L x W x H	200 kVA L x W x H	300 kVA L x W x H	400 kVA L x W x H
<b>Static UPS</b>	800 x 800 x 1900	800 x 800 x 1900	1200 x 800 x 1900	1200 x 800 x 1900	1600 x 800 x 1900	2000 x 800 x 1900
<b>Weight kg</b>	660	660	895	895	1335	1715
<b>Example 5 mins VRLA Battery on Stand</b>	1080 x 630 x 1195	1080 x 630 x 1195	900 x 800 x 1315	1430 x 630 x 1590	1595 x 800 x 1600	1610 x 800 x 2390
<b>Weight kg</b>	914	971	1575	1715	2516	3450
<b>Example 10 mins VRLA Battery on Stand</b>	1070 x 800 x 1205	900 x 800 x 1315	1430 x 800 x 1600	1595 x 800 x 1600	1595 x 800 x 2390	3005 x 800 x 1600
<b>Weight kg</b>	1260	1575	2096	1516	3775	5035

## Static Transfer Switch

### Technical Data - Apotrans

Rated Voltage	400 V +/- 15%	Transfer Times	<2ms Manual, <5ms Automatic
Rated Frequency	50 Hz +/- 5%	Short Circuit Current	14 x In
Power Factor	Overall Locus Diagram	Noise Level	<65 dB(A)
Overload	120% - 10 min, 150% - 2min	Operational Altitude	Up to 1000m Above Sea Level
Crestfactor	>5	Relative Humidity	20 to 90% Non Condensing
Efficiency	>98.5%	Degree of Protection	IP20 (Standard Enclosure)

## Piller APOTRANS Static Transfer Switch Guide to Dimensions & Weights

Standard Enclosure with Service Bypass				
Apotrans	Width	Depth	Height	Weight
25A - 63A	500mm	550mm	560mm	34kg
125A	800mm	900mm	1410mm	288kg
200A	800mm	900mm	1410mm	300kg
315A	1205mm	820mm	1920mm	600kg
400A	1205mm	820mm	1920mm	695kg
630A	1205mm	820mm	1920mm	695kg
1000A	1500mm	850mm	1900mm	865kg
1600A	2400mm	840mm	2115mm	1300kg

Chassis Unit for Integration into Switchboard/PDU				
Apotrans	Width	Depth	Height	Weight
125A	700mm	590mm	1100mm	200kg
200A	700mm	590mm	1100mm	200kg
315A	610mm	730mm	1610mm	450kg
400A	610mm	730mm	1610mm	450kg
630A	610mm	730mm	1610mm	450kg
1000A	610mm	730mm	1610mm	460kg