



Green Power with High Efficiency



Harmony^{SF} 3100/3300

20 to 300 kVA UPS

Three phase input - Single / Three phase output

- ⌘ Double conversion online UPS
- ⌘ Input power factor near unity
- ⌘ High efficiency
- ⌘ Low input current distortion
- ⌘ Digital control
- ⌘ Network connectivity
- ⌘ Compliance to International standards



SPECIFICATIONS

Harmony SF 3100

Harmony SF 3300

Rating	20, 30, 40 kVA	20, 30, 40, 60, 80, 120, 160, 200, 250, 300 kVA
INPUT		
Rectifier Design	Advanced PFC rectifier with IGBT based charger	
Nominal Voltage	415 V AC, (±15%) Three Phase & N	
Nominal Frequency	50 Hz (± 6%) (60 Hz optional)	
Input Power Factor	≥ 0.98	
Input THDi	< 8% for 20 to 40 kVA and < 7% for 60 to 300 kVA	
OUTPUT		
Inverter Design	IGBT based PWM with Digital control	
Voltage	230 V AC (220/240 V Selectable) 1 Ph & N	400 V AC, 3 Ph & N (380 / 415 V selectable)
Regulation	± 1%	±1% for balanced load, ±2% for 100% unbalanced load
Phase Displacement	-	< 1° for balanced load, < 2° for 100% unbalanced load
Frequency	50 Hz (± 0.25 Hz) in Free Running mode, 50 Hz (± 3 Hz) in Synchronous mode (60 Hz optional)	
Waveform	True Sinewave	
Total Harmonic Distortion	< 2 % max. for Linear Load < 5% max for Non-linear Load, (Ref. IEC 62040 - 3)	
Crest Factor	3 : 1	
Overload Capacity	125% for 10 minute; 150% for 60 sec. (Inverse time characteristics)	
Dynamic Response	Compliance to IEC 62040 - 3, Class 1	
Duty	Continuous	
ENVIRONMENTAL		
Ambient Temperature	0 to 40 °C	
Relative Humidity	Upto 90% (Non Condensing)	
Altitude	< 1000 meter, above sea level (without derating)	
PHYSICAL		
Enclosure Protection	IP - 20	
Cooling	Forced air	
Colour	Hawells Gray (RAL 7035)	
Cable Entry	Bottom	
TESTING STANDARDS	IEC 62040 - 3	

Model	Harmony SF 3100			Harmony SF 3300						
	20	30	40	20	30	40	60/80	120	160/200	250/300
Rating (in kVA)	20	30	40	20	30	40	60/80	120	160/200	250/300
Battery Voltage	300 V	360 V	360 V	300 V	360 V	360 V	360 V	360 V	360 V	408 V
Acoustic Noise* (in dBA)	< 60	< 62	< 65	< 60	< 62	< 65	< 63	< 65	< 68	< 70
Overall Efficiency	up to 90.5%			up to 90.5%			up to 91.5%	up to 92.5%	up to 93.5%	
Width (in mm)**	550	550	600	550	550	550	1000	1000	R-800 I-1200	R-1000 I-1400
Depth (in mm)	900	900	900	900	900	900	900	900	900	1000
Height (in mm)	1330	1330	1330	1330	1330	1330	1750	1750	1750	1900
Approx Weight (in kg)	390	460	530	400	450	500	750/850	1050	1575/1775	2200/2400

Above specifications are offered with standard **Harmony^{SF}** UPS. Following customisation is possible;

Configurations available : Parallel, N+1 redundant, Hot stand-by, Load Bus Synchronisation

* Acoustic Noise measured @ 1.0 meter ** R - Rectifier, I - Inverter Cubicle

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