SERVO

High Efficiency SERVO Systems

Technical Specification	
SERVO Rating KVA	10-1000 KVA

Input Parameters		
Nominal AC Input Voltage	1 Phase 230 V AC + Neutral + Earth	3 Phase 380 / 400/ 415 V AC + Neutral + Earth
Input Voltage Range	160 V AC -270 V AC	340 V AC - 470 V AC
Frequency range	46 Hz to 54 Hz	
Power Factor	≥0.8	≥0.8

Output Parameters	
Voltage	220 / 230 / 240 V AC Adjustable
Voltage Regulation	± 1%
Frequency (Free running)	50 Hz +0.05 Hz
Output Waveform	Pure Sine Wave
Harmonic Distortion (THD)	<3% (Linear Load) / , 5% (Non-Linear Load)
Power Factor	0.8
Cerst Factor	3:01:00 AM
Efficiency (AC-AC)	> 92%
Inverter Overload Capacity	105% - 130% for 10 Minutes, > 130% for 1 Second

Battery	
Battery Type	Sealed Maintenance Free Lead Acid, Lead Acid Tubular (Battery Voltage, Ah and Quality depending on Backup time)
Charger	Constant Voltage Constant Current
Communication interface	SNMP/RS 232 port software interface (Optional)

General	
Operating Temperature	0 deg. To 40 deg. C
Humidity	0 - 65% RH, Non Condensign
Noise Level	< 60 dB @ 1 Meter
Indication	Mains ON, Inverter ON / OFF / Faulty, Battery Level, Manual By pass ON, Load Level
Audible Alarm	Mains Failure Alarm, Low Battery Alarm
Protection	Advanced Electronic protection for device safety backed with MCBs Soft start feature for rectifier and inverter, Battery current limiting protection> 92% built in overload protection, output short-circuit protection
By Pass Switch	Manual Built-in
Static By Pass	Optional