



Eastman[®]
ENERGY. UNLIMITED.



SINE WAVE HUPS



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DOCUMENTED INFORMATION STATUS	
ISSUE NO.	01/30.07.22
REV. NO.	0

MODEL NAME	SINO 900VA	SINO 1200VA	SINO 1800VA	SINO 2500VA	SINO 4000VA	SINO 5500VA
Voltage	12V		24V		48V	
UPS BACKUP MODE TESTING						
Power Rating	900W	1200W	1800W	2500W	4000W	5500W
Power Factor	Unity					
No Load O/P Voltage	225V±10V					
Full Load O/P Voltage (Till Low Battery Alarm)	180V-210±10V			190V-210±10V		
No Load Battery Current	<2.5 AMP					
Full Load Battery Current	75±3A	100±3A	75±3A	105±3A	83±3A	110±3A
Over Load Battery Current	83A±3A	110A±3A	79A±3A	115A±3A	93±3A	120A±3A
Inverter Efficiency @ Nominal Battery Voltage	>75%		>80%	>75%	>80%	>80%
O/P Frequency (No Load & Full Load)	50Hz ± 0.5Hz					
Low Battery Indication Voltage (Std Mode) @ Battery Terminal	10.7±0.25V		21.4V±0.5V		43.6V±1V	
Low Battery Shutdown Voltage (Std Mode) @ Battery Terminal	10.5±0.25V		21V±0.5V		42.8V±1V	
Low Battery Indication Voltage (High Mode) @ Battery Terminal	10.9±0.25V		21.8V±0.5V		43.6V±1V	
Low Battery Shutdown Voltage (High Mode) @ Battery Terminal	10.7±0.25V		21.4V±0.5V		42.8V±1V	
No Load & Full Load O/P Short Ckt Protection	Available					
Output Waveform	Pure Sine Wave					
Over Load Shut Down Protection	Available					
Over Temperature Protection	87°C ± 10°C			100°C ± 10°C		
Over Temperature Recovery	77.7°C ± 10°			90°C ± 10°		
Re-Tries During Battery Low Cut Off (Narrow Mode)	No Reset			No Reset		
Re-Tries During Battery Low Cut Off (Wide Mode)	No Reset			No Reset		
Manual Reset During Battery Low (Using On/Off Switch)	Power On/OFF switch available			Power On/OFF switch available (for 3 times)		
Re-Tries During Over Load (Narrow Mode)	No Reset					
Re-Tries During Over Load (Wide Mode)	Auto 5 Times					
Re-Tries During O/P Short Circuit Test	No Reset					
MAINS MODE						
Mains Low Cut (Narrow Mode)	180V± 10V					
Low Cut Recovery (Narrow Mode)	190V± 10V					
Mains High Cut (Narrow Mode)	265V± 5V					
High Cut Recovery (Narrow Mode)	255V± 10V					
Mains Low Cut (Wide Mode)	90V± 10V			110V± 10V		
Low Cut Recovery (Wide Mode)	100V± 10V			120V± 10V		
Mains High Cut (Wide Mode)	300V± 10V			280V± 10V		
High Cut Recovery (Wide Mode)	285V± 10V			270V± 10V		
Battery Charging Boost Voltage High Mode @ 220Vac	14.5V± 0.25V		29V± 0.5V		58V± 1V	
Battery Charging Float Voltage High Mode @ 220Vac	13.8V± 0.25V	13.8V± 0.25V	27.6V± 0.5V		55.2V± 1V	
Battery Charging Boost Voltage Std Mode @ 220Vac	14.2V± 0.25V	14.2V± 0.25V	28.4V± 0.5V		56.8V± 1V	
Battery Charging Float Voltage Std Mode @ 220Vac	13.6V± 0.25V		27.2V± 0.5V		54.4V± 1V	
Battery Charging Current @ 220Vavc (Std Mode)	16A ± 2A					
Battery Charging Current @ 220Vavc (High Mode)	18A ± 2A					
Circuit Breaker trip @ Mains Mode	Available					
Changeover From Mains To Backup (Ups Mode @ 200W Bulb Load)	<15ms	-	-	-	-	-
Changeover From Mains To Backup (Std Mode @ 200W Bulb Load)	<15ms	-	-	-	-	-
Changeover From Backup To Mains (Ups Mode @ 200W Bulb Load)	<15ms	-	-	-	-	-
Changeover From Backup To Mains (Std Mode @ 200W Bulb Load)	<15ms	-	-	-	-	-
Changeover From Mains To Backup (Ups Mode @ 400W Bulb Load)	-	-	<15ms	-	-	-
Changeover From Mains To Backup (Std Mode @ 400W Bulb Load)	-	-	<15ms	-	-	-
Changeover From Backup To Mains (Ups Mode @ 400W Bulb Load)	-	-	<15ms	-	-	-



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MAINS MODE						
Changeover From Backup To Mains (Std Mode @ 400W Bulb Load)	-	<15ms		-	-	
Changeover From Mains To Backup (Ups Mode @ 800W Bulb Load)	-	-		<15ms	<15ms	
Changeover From Mains To Backup (Std Mode @ 800W Bulb Load)	-	-	-	<15ms	<15ms	
Changeover From Backup To Mains (Ups Mode @ 800W Bulb Load)	-	-	-	<15ms	<15ms	
Changeover From Backup To Mains (Std Mode @ 800W Bulb Load)	-	-	-	<15ms	<15ms	
AUDIO INDICATION						
Over Load Occurs	Beep With Delay					
Over Load Shut Down	No Beep					
Low Battery Occurs	Beep With Delay					
Low Battery Shut Down	No Beep					
Over Temperature Shut Down	Continuous Beep					
Short Circuit	Continuous Beep					
Circuit Breaker trip	Continuous Beep					
Buzzer Mute Option	Buzzer Can Be Muted Any Time During Any Audio Indication By Pressing On/Off Switch					
VISUAL INDICATION						
Battery Voltage	Shows Battery Voltage					
Input Voltage	Shows Input Voltage					
Backup Mode	Battery Symbol, Battery Graph , Battery Voltage, Selected Mode (Narrow Or Wide)		UPS on, O/P voltage, battery voltage, O/P frequency, load %			
Mains Mode	Mains Plug Symbol, Battery Graph , Input Voltage, Battery Voltage, Selected Mode (Narrow Or Wide)		AC Input Voltage, I/P Frequency, Battery Voltage, Battery Charging Condition,			
Narrow/Wide Mode	Narrow & Wide Symbol		-			
Short Circuit	Warning Symbol,Over Load Symbol Continue , Sct, Battery Symbol, Battery Graph, Selected Mode (Narrow Or Wide)		UPS Off short circuit			
Over Load Alarm	Over Load Symbol , Warning Symbol, Battery Symbol, Battery Graph, Battery Voltage, Selected Mode (Narrow Or Wide)		Overload , Load % , Pls Reduce load			
Over Load Shut Down	Over Load Symbol , Warning Symbol,Ovl, Battery Symbol, Battery Graph, Selectd Mode (Narrow Or Wide)		UPS Off Overload			
Ckt Breaker Trip	Warning Symbol,Ckt Breaker Symbol , Cbt Battery Graph, Selected Mode (Narrow Or Wide)		MCB Trip, Pls RESET, Select Bypass			
Low Battery Alarm	Battery Graph Blinks, Warning Symbol, Battery Voltage, Battery Symbol, Selected Mode (Narrow Or Wide)		Low Battery, Battery Voltage, Pls Reduce load			
Low Battery Shut Down	Battery Symbol, Battery Graph, Warning Symbol, Lob, Selected Mode (Narrow Or Wide)		UPS Off, Low battery			
Over Temperature Shut Down	Over Temperature Symbol , Warning Symbol , Otp, Battery Symbol, Battery Graph, Selected Mode (Narrow Or Wide)		Under Protection Over Temperature			
Buzzer Mute Option	Switch Off The On/Off Switch And Then Buzzer Mute Symbol Continue Glow		Switch Off The On/Off Switch			
Front Switch Off	Off, Selected Mode (Narrow Or Wide) , Buzzer Mute Symbol		AC Output Range, UPS Off			
Welcome message	-		Shows Eastman welcomes you with model name			
PROTECTIONS						
Input Overload	Circuit Breaker			MCB		
Output Short Ckt	Electronic Current Limiting					
Battery Short Ckt	Fuse					
Output Over Load (Std Mode)	Complete Shut Down After 5 Reset					
Battery High Protection	15.5V±1V		31V±1V		62V±1V	
Air Condition Load Capacity	N/A	N/A	N/A	1 Ton Ac	2 Ton Ac	2 Ton Ac
Drain To Drain Short Ckt	Available					
Bulb Load Testing Criteria	Keep The System In Mains Mode @250V, Bulb Load Is 900W	Keep The System In Mains Mode @250V, Bulb Load Is 1800W	Keep The System In Mains Mode @250V, Bulb Load Is 1800W	Keep The System In Mains Mode @250V, Bulb Load Is 2500W	Keep The System In Mains Mode @250V, Bulb Load Is 4000W	Keep The System In Mains Mode @250V, Bulb Load Is 5500W
Weight	10.3 Kgs	11.67 Kgs	18.2 Kgs	27.6 Kgs	36.4 Kgs	39.9 Kgs
Display	LCM			LCD		



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