Powerful Solutions for an Intelligent World



Avior Series















COMPREHENSIVE LCD DISPLAY

Alphanumeric LCD display shows UPS Status and UPS Parameters like voltage, current, frequency

USB CONNECTIVITY

USB port facilitates the communications between UPS and a PC (via USB cable) through software

BUCK / BOOST STABILIZER

The inbuilt AVR smooths out volltage fluctuations to protect connected load and prolong battery life

The ORION AVIOR range of Line Interactive UPS are designed primarily for difficult environmental site conditions that have wide voltage fluctuations in the mains power distribution. The AVIOR Series UPS provides clean and reliable backup power to ensure continued data integrity and optimum performance under a wide range of mains power conditions.

Line-Interactive topology

This topology guarantees consistent reliability and high level of power quality. Whatever the supply disturbances, the output waveform is stabilised via double boost and buck mode. The battery is used only as a backup source.

High performance and reliability

Avior features a microprocessor controller that delivers modified sine wave output offering the highest levels of reliability and efficiency, all in a compact design.

Protection against:















- Suitable for extreme site conditions
- Total DIGITAL Controls
- Wide Input Voltage Range
- Superior Dynamic Response
- **Temperature Compensated Charger**
- **Synchronised Switchover**
- Advanced Charge Profile Algorithm
- **Active Voltage Regulation**
- Intelligent Computer Interface
- **Extended Battery Runtime**
- Compatible with Solar Power (Optional)
- Complete Power Integrity & Management

ISO 9001 & ISO 14001



600 VA - 1 KVA **DIGITAL UPS SYSTEMS**



Powerful Solutions for an Intelligent World



Power protection for computers & bio-medical equipment





The ORION Line-interactive UPS combines the best technological benefits, making them the most advanced units; specially designed for protection of increasingly powerful computer systems, for both business applications and the most complete multimedia solutions. It incorporates all the requisite safety features required for a UPS to provide safe and efficient protection. ORION Line-interactive UPS assures you maximum reliability and electrical safety features, so that you can get the best out of your computer system.

TECHNICAL SPECIFICATIONS

Note	UPS Capacity	600 VA	700 VA	800 VA	1000 VA	
Nominal Input Voltage	Model	Avior 600	Avior 700	Avior 800	Avior 1000	
Nominal Input Voltage Range 140 - 300 V AC Input Frequency 50 Hz +/- 5 Hz Indian 3 Pin 5/6A Power Cord length 1-5 mts 1.5 mts 1	INPUT PARAMETERS					
Input Frequency 150 Hz +/ 5 Hz 150 Hz +/ 5 Hz +/ 5 Hz 150 Hz +/ 5 Hz 150 Hz +/ 5 Hz 150 Hz +/ 5 Hz +/ 5 Hz 150 Hz +/ 5	Nominal Input Voltage		220 / 230 V AC			
Power Cord length	Nominal Input Voltage Range		140 - 300 V AC			
Power Cord length OUTPUT PARAMETERS Capacity (Watts) 360 W (optional 480 W) (optional 560 W) (optional 640 W) (optional 800 W) (optional 360 W) (optional 480 W) (optional 560 W) (optional 640 W) (optional 800 W) (optional 560 W) (optional 640 W) (optional 800 W) (optional 560 W) (optional 560 W) (optional 640 W) (optional 560	Input Frequency		50 Hz +/- 5 Hz			
COPPORT PARAMETERS Capacity (Watts) 360 W 420 W 480 W 600 W Copinal 480 W) (optional 550 W) (optional 640 W) (optional 800 W) Nominal Output Voltage 220/230 V AC +/ - 10% (mains mode) and +/- 5% (battery mode) Output frequency Same as input (Mains mode) & 50 Hz +/- 0.5 Hz (Battery Mode) Wave Form Type Stepped approximation to a sine wave (Optional 561 we wave) Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Switchover Time 2 ty-02/03/04 Indian 3 Pin or IEC 6A (Battery Backup) ***Simple Recharge Time **Simple Recharge Time No. Of batteries (internal) 1 -4 Nos. 1 -4 Nos. 2 -4 Nos. 2 -4 Nos. 2 -4 Nos. 2 -4 Nos. 1 -2 Nos. 12V	Input Connections	Indian 3 Pin 5/6A				
Capacity (Watts) 360 W 420 W 480 W 600 W Nominal Output Voltage 220/230 V AC +/ - 10% (mains mode) and +/- 5% (battery mode) Output frequency Same as input (Mains mode) & 50 Hz +/- 0.5 Hz (Battery Mode) Wave Form Type Stepped approximation to a sine wave (Optional Sine-wave) Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Switchover Time To see the sealed Lead acid battery leak proof (internal/waternal) Rectage Time Mainternance Free sealed Lead acid battery leak proof (internal/waternal) Recharge Time 1-4 Nos. 1-4 Nos. 2-4 Nos. 2-4 Nos. No. Of batteries (internal) 1-2 Nos. 12V 1-2 Nos. 12V </td <td>Power Cord length</td> <td colspan="4">1.5 mtrs</td>	Power Cord length	1.5 mtrs				
Optional 480 W Optional 560 W Optional 640 W Optional 640 W Optional 800 W Optional 800 W Optional 0 Utput frequency	OUTPUT PARAMETERS					
Nominal Output Voltage 220/230 V AC +/- 10% (mains mode) & 50 Haz +/- 5% (battery mode) Output frequency Same as input (Mains mode) & 50 Haz +/- 0.5 Hz (Battery Mode) Wave Form Type Stepped approximation to a sine wave (Optional Sine-wave) Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Switchover Time To sine sec 8 Attery Type Battery Type Maintenance free sealed Lead acid battery leak proof (internal/external) Recharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1-4 Nos. 1-4 Nos. 2-4 Nos. 12V - 7AH-26AH 12V - 7AH-26AH 12V - 7AH-26AH 12V - 7AH-26AH No. Of batteries (external) 1-2 Nos. 12V 1-2 Nos. 12V 1-2 Nos. 12V Charging Current Upto 8-10 Amps for Long duration back-up Communication Security (Signal Security Securit	Capacity (Watts)	360 W	420 W	480 W	600 W	
Output frequency Same as input (Mains mode) & 50 Hz +/- 0.5 Hz (Battery Mode) Wave Form Type Steped approximation to a sine wave (Optional Sine-wave) Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Witchover Time Qty-02/03/04 Indian 3 Pin or IEC 6A (Battery Backup) Switchover Time For Sec Battery Type Becharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1-4 Nos. 1-4 Nos. 2-4 Nos. 12V - 7AH-26AH No. Of batteries (external) 1-2 Nos. 12V Nos 12V 1-2 Nos. 12V		(optional 480 W)	(optional 560 W)	(optional 640 W)	(optional 800 W)	
Wave Form Type Stepped approximation to a sine wave (Optional Sine-wave) Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Qty-02/03/04 Indian 3 Pin or IEC 6A (Battery Backup) Switchover Time FATTERY DETAILS Battery Type Maintenance free sealed Lead acid battery leak proof (internal/external) Recharge Time Ge-8 hours to 90% capacity after discharge No. Of batteries (internal) 1 ~4 Nos. 1 ~4 Nos. 2 ~4 Nos. 2 ~4 Nos. No. Of batteries (external) 1 ~2 Nos. 12V	Nominal Output Voltage	220/230 V AC +/- 10% (mains mode) and +/- 5% (battery mode)				
Output Connections Qty-01/02 Indian 3 Pin or IEC 6A (Surge Protection) Switchover Time Qty-02/03/04 Indian 3 Pin or IEC 6A (Surge Protection) Switchover Time STEP Color (Surge Protection) BATTERY DETAILS Battery Type Maintenance free sealed Lead acid battery leak proof (internal/external) Recharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1 ~4 Nos. 1 ~4 Nos. 2 ~4 Nos. 2 ~4 Nos. No. Of batteries (internal) 1 ~4 Nos. 1 ~4 Nos. 2 ~4 Nos. 2 ~4 Nos. No. Of batteries (internal) 1 ~4 Nos. 1 ~4 Nos. 2 ~4 Nos. 2 ~4 Nos. No. Of batteries (internal) 1 ~2 Nos. 12V	Output frequency	Same as input (Mains mode) & 50 Hz +/- 0.5 Hz (Battery Mode)				
A	Wave Form Type	Stepped approximation to a sine wave (Optional Sine-wave)				
Switchover Time ATTERY DETAILS Battery Type Maintenable and the sealed Lead acid battery leak proof (internal) Recharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1-4 Nos. 1-4 Nos. 2-4 Nos. 2-4 Nos. No. Of batteries (external) 1-2 Nos. 12V	Output Connections					
### Partial P						
Battery Type Maintenance free sealed Lead acid battery leak proof (internal/external) Recharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1-4 Nos. 2-4 Nos. 2-4 Nos. 12V - 7AH-26AH No. Of batteries (external) 1-2 Nos. 12V 1-2 Nos. 12V 1-2 Nos. 12V No. Of batteries (external) 1-2 Nos. 12V 1-2 Nos. 12V 1-2 Nos. 12V No. Of batteries (external) 1-2 Nos. 12V 1-2 Nos. 12V 1-2 Nos. 12V No. Of batteries (external) 1-2 Nos. 12V 1-2 Nos. 12V 1-2 Nos. 12V Obstacles (external) 1-2 Nos. 12V	Switchover Time					
Recharge Time 6-8 hours to 90% capacity after discharge No. Of batteries (internal) 1~4 Nos. 1~4 Nos. 2~4 Nos. 2~4 Nos. 2~4 Nos. 2~4 Nos. 2~4 Nos. 2~4 Nos. 1 2V - 7AH-26AH 2 V - 7AH-26AH 2 V - 7AH-26AH 2 V - 7AH-26AH 2 V - 7AH-26AH 2	BATTERY DETAILS					
No. Of batteries (internal) 1 -4 Nos. 1 ~4 Nos. 2 -4 Nos. 2 -4 Nos. 12V - 7AH −26AH 12V −20N −20	Battery Type	Maintenance free sealed Lead acid battery leak proof (internal/external)				
12V - 7AH - 26AH 12V - 7AH - 42 AH No. 0f batteries (external) 1 - 2 Nos. 12V Charging Current Upto 8 - 10 Amps for Long duration back-up COMMUNICATION USB / RS 232 C Interface Display Multifunction LED (Optional LCD) Monitoring Power Management software with interface cable. Power Management software with interface cable. Protection & Alarm Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode a Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature O° C to +45° C Relative Humidity Operating Elevation O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Storage Temperature O° C to +45° C Audible noise O - 3000 meters Audible noi	Recharge Time					
No. Of batteries (external) 1~2 Nos. 12V 1 2 1 1 1 1 2 1 1 2 1 2 2 2	No. Of batteries (internal)	1~4 Nos.	1~4 Nos.	2~4 Nos.	2~4 Nos.	
Charging Current Upto 8~10 Amps for Long duration back-up COMMUNICATION Interface Port(s) USB / RS 232 C Interface Display Multifunction LED (Optional LCD) Monitoring Power Management software with interface cable. Protection & Alarm Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 – 3000 meters Storage Temperature - 15°C to +45°C Audible noise - 40 dBA PHYSICAL Hx W x D (mm) 160 x 220 x 360 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS CERTIFICATIONS Guality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC ISO 9001, ISO 14001, OHSAS 18001, CE <td></td> <td>12V - 7AH~26AH</td> <td>12V - 7AH~26AH</td> <td>12V - 7AH~26AH</td> <td>12V - 7AH~42 AH</td>		12V - 7AH~26AH	12V - 7AH~26AH	12V - 7AH~26AH	12V - 7AH~42 AH	
COMMUNICATION Interface Port(s) USB / RS 232 C Interface Display Multifunction LED (Optional LCD) Monitoring Power Management software with interface cable. Protection & Alarm Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 – 3000 meters Storage Temperature -15°C to +45°C Audible noise <40 dBA	No. Of batteries (external)	1~2 Nos. 12V	1~2 Nos. 12V	1~2 Nos. 12V	1~2 Nos. 12V	
Interface Port(s) USB / RS 232 C Interface Display Multifunction LED (Optional LCD) Monitoring Power Management software with interface cable. Protection & Alarm Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 - 3000 meters Storage Temperature -15°C to +45°C Audible noise -40 dBA PHYSICAL Hx W x D (mm) 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	Charging Current	Upto 8~10 Amps for Long duration back-up				
Display Multifunction LED (Optional LCD) Monitoring Power Management software with interface cable. Protection & Alarm Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 - 3000 meters Storage Temperature -15°C to +45°C Audible noise -40 dBA PHYSICAL Hx W x D (mm) 160 x 220 x 360 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 A20 x 200 x 220 A20 x 200 x 220 ERTIFICATIONS CERTIFICATIONS ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	COMMUNICATION					
MonitoringPower Management software with interface cable.Protection & AlarmSurge, Cold Start, Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional)ENVIRONMENTOperating Temperature0°C to +45°CRelative Humidity0% to 95%Operating Elevation0 – 3000 metersStorage Temperature-15°C to +45°CAudible noise40 dBAPHYSICALHx WxD (mm)160 x 220 x 360160 x 220 x 360420 x 200 x 220420 x 200 x 220Weight7 Kgs9 Kgs11 Kgs13 KgsCERTIFICATIONSQualityISO 9001, ISO 14001, OHSAS 18001, CESafety & EMCIEC 62040-1, IEC 62040-2	Interface Port(s)	USB / RS 232 C Interface				
Protection & Alarm Surge, Cold Start, Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode & Electronic protection in battery mode), Inbuilt Bypass (optional) ENVIRONMENT Operating Temperature Relative Humidity Operating Elevation Operating E	Display	Multifunction LED (Optional LCD)				
ENVIRONMENT Operating Temperature Relative Humidity Operating Elevation Operating Elevation Operating Temperature Storage Temperature Audible noise PHYSICAL H x W x D (mm) 160 x 220 x 360 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality Sieve Library	Monitoring		Power Management software with interface cable.			
ENVIRONMENT Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 - 3000 meters Storage Temperature -15°C to +45°C Audible noise <40 dBA	Protection & Alarm	Surge, Cold Start , Low battery, overload, overvoltage, short circuit (Fuse/MCB in Mains mode				
Operating Temperature 0°C to +45°C Relative Humidity 0% to 95% Operating Elevation 0 - 3000 meters Storage Temperature -15°C to +45°C Audible noise <40 dBA		& Ele	& Electronic protection in battery mode), Inbuilt Bypass (optional)			
Relative Humidity 0% to 95% Operating Elevation 0 - 3000 meters Storage Temperature -15°C to +45°C Audible noise <40 dBA	ENVIRONMENT					
Operating Elevation 0 − 3000 meters Storage Temperature -15°C to +45°C Audible noise <40 dBA	Operating Temperature					
Storage Temperature Audible noise <40 dBA	Relative Humidity		0% to 95%			
Audible noise PHYSICAL H x W x D (mm) 160 x 220 x 360 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	Operating Elevation		0 – 3000 meters			
PHYSICAL H x W x D (mm) 160 x 220 x 360 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	Storage Temperature	-15°C to +45°C				
H x W x D (mm) 160 x 220 x 360 160 x 220 x 360 420 x 200 x 220 420 x 200 x 220 Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	Audible noise	<40 dBA				
Weight 7 Kgs 9 Kgs 11 Kgs 13 Kgs CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	PHYSICAL					
CERTIFICATIONS Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	H x W x D (mm)	160 x 220 x 360	160 x 220 x 360	420 x 200 x 220	420 x 200 x 220	
Quality ISO 9001, ISO 14001, OHSAS 18001, CE Safety & EMC IEC 62040-1, IEC 62040-2	Weight	7 Kgs	9 Kgs	11 Kgs	13 Kgs	
Safety & EMC IEC 62040-1, IEC 62040-2	CERTIFICATIONS					
	Quality		ISO 9001, ISO 1	4001, OHSAS 18001, CE		
Environment Compliance RoHS	Safety & EMC		IEC 6204	10-1, IEC 62040-2		
	Environment Compliance		RoHS			





Specifications are subject to change without prior notice due to continuous technology upgradations © 2014 DS SYSTEMS PVT LTD