

Perfect Solution for Hyper Critical Applications



CROMA Series
1 KVA - 10 KVA

- True On-Line UPS, double conversion architecture
- PWM IGBT technology with Pure sine-wave output
- Fully digitized microprocessor/DSP controlled
- IGBT based Rectifier and Inverter
- Lightning and surge protection
- Advanced battery management (ABM)
- Automatic battery charging in UPS off mode
- Battery Replacement Warning
- Automatic diagnostics & battery check
- RS 232 & USB communication port
- Load segmentation receptacles controllable
- Cold start function (DC power on)
- Extended back up time with battery pack
- Power Management & Software monitoring
- Inbuilt Isolation Transformer (selected models)
- Emergency Power off function
- Intelligent Fan Speed Control (load dependent)
- Selectable high Efficiency mode
- Generator Compatible
- Over Voltage & Under Voltage Cut-Off
- Multi lingual LCD display
- Parallel Redundancy Feature (Optional)
- Solar Power Compatible (Optional)

ISO 9001 & ISO 14001

RoHS

CE

UKcert
CERTIFIED COMPANY

TECHNICAL SPECIFICATIONS

ORION CROMA SERIES UPS (1 KVA - 10 KVA)

Orion
REALTIME PROTECTION

CAPACITY	1000 VA / 800 W or 900 W CROMA 1-1 VPT CROMA DX 1-1 VPT	2000 VA / 1600 W or 1800 W CROMA 1-2 VPT CROMA DX 2-1 VPT	3000 VA / 2400 W or 2700 W CROMA 1-3 VPT CROMA DX 3-1 VPT	6000 VA / 4800 W or 5400 W CROMA 1-6 VPT CROMA DX 6-1 VPT	10000 VA / 9000 W CROMA DX 10-1 VPT CROMA DX 10-3 VPT
MODEL					
INPUT					
Nominal Voltage	220/230/240 VAC				220/230/240V, 1-Phase 380/400/415V, 3-Phase
Voltage Range	<u>Normal Range</u> 110-300 VAC (1-phase) @ 50% load 140-300 VAC (1-phase) @ 70% load 160-300 VAC (1-phase) @ 100% load			<u>1 Phase Input</u> 110-300 VAC (1-phase) @ 50% load 170-300 VAC (1-phase) @ 100% load <u>3 Phase Input</u> 200-480 VAC (3-phase) @ 50% load 305-480 VAC (3-phase) @ 100% load	
Nominal Frequency	50 Hz				
Frequency Range	40Hz - 70Hz				
Input Harmonics (THDi)	<5% with resistive load				
Power Factor	≥ 0.99				
OUTPUT					
Output voltage	220/230/240VAC				
AC Voltage Regulation	± 1%				
Frequency Regulation	± 0.05 Hz (Free Run); 47 - 53 Hz (Synchronised)				
Transfer time	0 m-sec (Mains to Battery); 4 m-sec (Inverter to Bypass)				
Overload	Upto 110%: 10 minutes; 130%: 60 seconds; 150%: 30 seconds				
Crest Ratio	3:1				
Harmonic Distortion	≤ 2% THD (Linear Load); ≤ 5% THD (Non-linear Load)				
Waveform	Pure Sine-wave				
Efficiency	~ 90% @full load			94% @full load in On-Line mode >98% @full load in Eco mode	
USER INTERFACE	LCD Display showing Input/ Output Voltage & Frequency, Battery DC Voltage, Battery & Load Level, UPS, Battery & Load Status. Temperature, Fault Indicators for Over/Under Voltage, Over-temperature, Inverter/Charger fault, Short Circuit, Audio-Visual alarm for UPS on Battery, Overload, Low Battery, Setting UPS Operating & DC Parameters, Self Test etc.				
BATTERY					
Standard Model					
Battery Type (Inbuilt)					
Numbers	2 or 3	6 or 8	12V-7AH / 9AH 6 or 8	16 ~ 20	16 ~ 20
Recharge Time	4 hours recover to 90% capacity (Typical)	4 hours recover to 90% capacity (Typical)	4 hours recover to 90% capacity (Typical)	4 hours recover to 90% capacity (Typical)	4 hours recover to 90% capacity (Typical)
Charging Current	1.0 A(max.)	1.0 A(max.)	1.0 A(max.)	1.0 A(max.)	1.0 A(max.)
Long-run Model					
Battery Type (Inbuilt/External)	12 V	12 V	12 V	12 V	12 V
Numbers	2 or 3	6 or 8	6 or 8	16 ~ 20	16 / 20 / 24
Charging Current	6~12 A(max.)	6~12 A(max.)	6~12 A(max.)	6~15 A(max.)	6~15 A(max.)
Management & Charger Type	Advanced Battery Management with Self Test; CVCC Charging Mechanism				
PROTECTION	Surge Suppression, Spike & Noise Suppression, Battery Overcharge, Low Battery, Output over voltage, Input over-voltage & under voltage, Overload, Short-circuit, Over Temperature, Battery Self Test, EPO, Isolation Transformer				
OTHER FEATURES	Cold Start: Allowing UPS to start on Batteries, in the absence of AC Mains Power; Auto-Restart: Allowing UPS to automatically re-start on resumption of AC Mains Power after shutdown due to Low Battery; Self-Diagnosis: Allowing UPS to undertake self-test of main components such as Inverter, Rectifier & Charger, Battery etc.				
BYPASS	Automatic and Manual				
PHYSICAL					
Dimension, DxWxH(mm)	397 x 140 x 230	421 x 190 x 315	421 x 190 x 315	550 x 260 x 708	550 x 260 x 708
Net Weight (kgs)	7	13	14	26	30
ENVIRONMENT					
Operating Humidity & Temp	0-95 % RH (non-condensing) @ 0-45°C (rated load); 0-50°C (with derating)				
Storage temperature & Altitude	-10 to 60°C; Upto 1000 m (without derating)				
Noise Level	<=45dBA @ 1 Meter			<55dBA @ 1 Meter	
MANAGEMENT					
Smart RS-232 / USB	Supports Windows® 7, 8, 10, Linux				
Optional SNMP	Power management and Remote monitoring through SNMP manager and web browser				
STANDARDS					
Certifications	ISO 9001, ISO 14001, OHSAS 18001, CE, RoHS, BIS				
EMC	IEC/EN 62040-2				
Safety	IEC/EN 62040-1				
Performance	IEC/EN 62040-3				

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Croma Series



ISO 9001 & ISO 14001

