Orca™





MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

ELECTRONIC SECURITY
ASSOCIATION OF INDIA

MAKE IN INDIA

ISO
9001:2015

Power Division

INTRODUCTION

Orca delivers reliable power solutions across Inverters, Solar Hybrid UPS, Online UPS systems, and MPPT solar charge controllers — engineered for performance, durability, and modern energy needs.

Orca — powering intelligence, protecting what matters.



- Critical Power
- Renewable Energy
- Power Supplies & Converters
- Data Centeres



Orca Power Solutions – Introduction

We specialize in advanced inverter and UPS technologies, combining robust power hardware with smart embedded firmware and user-friendly software. Our solutions are engineered to provide stable power, fast transfer response, high efficiency, and long service life, even under demanding operating conditions.

Orca UPS systems integrate intelligent control algorithms, real-time monitoring, and protection mechanisms to ensure safe and uninterrupted power delivery. With a strong emphasis on quality, reliability, and innovation, our UPS products are designed to meet modern energy needs while remaining easy to install, operate, and maintain.

Products



Ranger 1K-10K

The Orca Ranger Series is designed for home and small commercial applications, offering stable power backup with pure sine-wave output and high efficiency

01



Ranger SolarX 1K-10K

SolarX Series combines inverter, UPS, and MPPT solar charger into a single intelligent unit. Ideal for solar-powered homes and businesses.

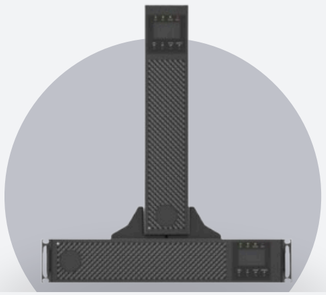
02



Guard

Orca Guard MPPT controllers ensure maximum solar harvesting efficiency and safe battery charging.

03



Cruiser 1K-10K

The Cruiser Online UPS series delivers true double-conversion power protection for critical IT, medical, and industrial equipment.

04

Ranger Series – Inverters

(Home & Commercial Inverters)

Model	Capacity	Battery System	Application
OR-RG1K	1 kVA	12V / 24V	Home / Office
OR-RG2K	2 kVA	24V	Home / Office
OR-RG3K	3 kVA	48V	Commercial
OR-RG5K	5 kVA	48V	Commercial

Key Features

- Pure sine wave output (safe for sensitive electronics)
- High efficiency inverter design
- Fast changeover for uninterrupted power
- Intelligent battery charging
- Wide input voltage tolerance
- Supports tubular & SMF batteries
- Overload, short-circuit & reverse polarity protection
- Low noise operation with optimized cooling
- Rugged metal enclosure for long life

Ideal For

- Shops, offices
- Computers, lights, fans, TVs
- Small commercial loads



Ranger SolarX Series – MPPT Solar Hybrid UPS

(Inverter + UPS + Solar in One Unit)

Model	Power	Battery	Solar MPPT	Use Case
OR-SX1K	1 kW	24V	Yes	Solar Home
OR-SX2K	2 kW	24V	Yes	Solar Home
OR-SX3K	3 kW	48V	Yes	Commercial
OR-SX5K	5 kW	48V	Yes	Commercial / Industrial

Key Features

- Built-in MPPT solar charge controller
- Hybrid operation: Solar + Grid + Battery
- High solar utilization with MPPT tracking
- Pure sine wave AC output
- Programmable charging priority (Solar / Grid)
- Supports high-capacity battery banks
- LCD display for system monitoring
- Intelligent battery management system (BMS logic)
- Multiple protection layers (PV, battery, AC)
- Ideal for off-grid & hybrid installations

Ideal For

- Solar homes
- Commercial solar backup
- Areas with frequent power cuts



Guard Series – MPPT Solar Charge Controllers

(Dedicated MPPT Controllers)

Model	Current	System Voltage	Max PV Voltage
OR-MP20	20A	12V / 24V	230VDC
OR-MP30	30A	12V / 24V	230VDC
OR-MP40	40A	12V / 24V	230VDC
OR-MP60	60A	24V / 48V	250VDC

Key Features

- Advanced MPPT algorithm for maximum solar harvest
- High PV input voltage support
- Automatic battery voltage detection
- High charging efficiency (>98%)
- Multi-stage battery charging
- Supports Lead Acid & Lithium batteries
- LCD display with real-time parameters
- Comprehensive electronic protections
- Compact industrial-grade design
- Reliable performance in high temperature environments

Ideal For

- Standalone solar systems
- Solar battery charging
- Off-grid solar projects



Cruiser Series – Online UPS

(True Double Conversion UPS)

Model	Capacity	Type
OR-CR1KO	1 kVA	Online UPS
OR-CR2KO	2 kVA	Online UPS
OR-CR3KO	3 kVA	Online UPS
OR-CR5KO	5 kVA	Online UPS

Key Features

- True online double-conversion technology
- Zero transfer time (0 ms)
- Stable output voltage & frequency
- High input power factor
- Wide input voltage & frequency range
- Intelligent battery management
- LCD / LED status display
- SNMP / Network monitoring (optional)
- Rack / Tower convertible design (model dependent)
- Designed for 24×7 critical operation



Ideal For

- Servers & data centers
- Medical equipment
- Banking & telecom
- Industrial automation

Titan – Power Supplies & Converters

Orca Model	Output	Notes
OPS-24-1A	24 V DC @ 1 A	Basic desktop / wall adapter
OPS-DIN-24/1A	24 V DC @ 1 A	DIN-rail mount industrial PSU
OPS-24/2A	24 V DC @ 2 A	Higher load version
OPS-24/5A	24 V DC @ 5 A	For larger panels & multiple devices
OPS-24/10A	24 V DC @ 10 A	For telecom / rack applications
OPS-SMD-24/20W	24 V DC @ 0.83 A	Compact SMPS module

- Industrial DC Power Supplies
- DIN-Rail PSUs
- Programmable Lab Power Supplies
- AC-DC & DC-DC Converters
- UPS for Edge Devices
- Typical Applications
- Manufacturing & robotics
- Telecom base stations
- Embedded systems / instrumentation
- Laboratory & R&D

Differentiators

- Wide input range
- High MTBF
- Low ripple & noise
- Rugged industrial design

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