

SERVOKON

RAKHE SAB CONTROL MEIN



**SOLAR
HYBRID PCU**

Upto 10 KVA



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ABOUT US

OUR COMPANY OVERVIEW

One of the largest manufacturers and suppliers of power conditioning equipment and transformers in the Indian market, Servokon has been synonymous with quality and unmatched performance for more than three decades. The values embedded by Mr. Haji Kamruddin in the organisation's culture at the time of establishment in 1990 are still revered by the stakeholders, and they helped Servokon to steer towards international markets with exceptional growth on export fronts.

The brainchild of Mr. Haji Kamruddin has now evolved into a path-breaking brand of industrial and social significance, and the entire product range of Servokon speaks volumes about the vision and farsightedness of a leader with a high proclivity towards technological innovations and willingness to adopt the best business policies. That's why since its inception, the company has experienced tremendous growth that has gradually helped it to emerge as a national leader in power conditioning equipment and transformers.

Servokon manufactures and delivers avant-garde products, including Power Transformers, Distribution Transformers, Servo Voltage Stabilizers, Rolling Contact/Linear Type Servo Stabilizers, Automatic Voltage Stabilizers, Online UPS, Solar Power Generation System (SPGS), HT AVR, Built-in AVR, CVT, Variable Auto Transformer (Variac), HT & LT Electrical Panels, Furnace Transformers, Pad Mounted Transformers, Isolation Transformers, Compact Sub Stations (CSS), Packaged Sub Stations (PSS), Step Up & Step Down Transformers, Special Duty Transformers, Solar Inverter, Solar Battery, Solar Panels, Geysers and various other Industrial & Domestic Products. Servokon's progressive and transparent company policies and state-of-the-art manufacturing facilities have helped it to extend its market reach even beyond India.

Every product has to pass stringent quality tests before finding its place in the market. Servokon maintains Indian standards (IS), IEC, IEEE, NEMA & various international standards throughout the manufacturing and distribution processes. These consistent efforts in quality assurance have helped Servokon secure approval from the various reputed government institutions and boards such as Central Power Research Institute (CPRI), Electrical Research and Development Association (ERDA), National Test House (NTH), National Accreditation Board for Testing and Calibration Laboratories (NABL), Power Grid Corporation of India Limited and many more government approval bodies.

VISION

To carve a distinct and impactful niche in the production and supply of robust power conditioning solutions such as High-capacity Transformers and Servo Stabilizers through an efficient network of channel partners in India and abroad. Besides, Servokon is committed to facilitating the renewable energy goals of industries and economies through research-based and cost-effective solar power solutions.

MISSION

To successfully understand the present and future needs of domestic and overseas markets and meet their expectations with the most advanced, efficacious, and budget-friendly solutions. Moreover, to continuously add value to Servokon's products and services by leveraging innovations, incorporating skills, and adhering to professional ethics.



Let's bring Quality
& Consistency
together!

#SaifAliKhan

35
YEARS OF TRUST



Pure Sine Wave SOLAR HYBRID PCU 800 VA, 12V

THUNDER 1000

- Related AC power 750 VA, 800 VA 12V
- Operating voltage 100-290V
- Maximum supported panel power from 12V up to 500Wp
- Charge Controller Rating - 30A/12V, with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Max : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Max charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Thunder 1000
Capacity (VA)	800 VA
Nominal Battery Voltage (Vdc)	12V
Charge Controller Type	PWM
Charge Controller Rating	30 Amp/12V
Maximum PV Power	500 Wp
Input Voltage Range (Min-Max) (Voc)	17V-25V
Battery Boost Voltage (Adjustable)	14.4V (Default Setting)
Battery Low Cut (Adjustable)	10.5V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)
Supported Battery Types	Flat, Tubular
Discharging Current	40 Amp. 55 Amp.
Display Type	LED
Dimensions (L*W*H) CM	30*33*20
Net Weight	9 Kg apx.



Pure Sine Wave **SOLAR HYBRID PCU** 1100 VA, 12V

NOVA 1400

- Related AC power 1100 VA 12V
- Operating voltage 100-290V
- Maximum supported panel power from 12V up to 1000Wp
- Charge Controller Rating - 50A/12V, with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Ma x : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Ma x charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Nova 1400
Capacity (VA)	1100 VA
Nominal Battery Voltage (Vdc)	12V
Charge Controller Type	PWM
Charge Controller Rating	50 Amp/12V
Maximum PV Power	900 Wp
Input Voltage Range (Min-Max) (Voc)	17V-25V
Battery Boost Voltage (Adjustable)	14.4V (Default Setting)
Battery Low Cut (Adjustable)	10.4V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)
Supported Battery Types	Flat, Tubular
Discharging Current	70 Amp.
Display Type	LCD
Dimensions (L*W*H) CM	37*35*21
Net Weight	12 Kg apx.



Pure Sine Wave SOLAR HYBRID PCU 1450 VA, 12V & 24V

NOVA 1750

- Related AC power 1450 VA 12V, 1450 VA 24V
- Operating voltage 100-290V
- Maximum supported panel power from 24V up to 2000Wp
- Charge Controller Rating - 50A/24V, with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Max : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Max charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Nova 1750 12V / Nova 1750 24V
Capacity (VA)	1450 VA
Nominal Battery Voltage (Vdc)	12/24V
Charge Controller Type	PWM
Charge Controller Rating	50 Amp/12V
Maximum PV Power	1800 Wp
Input Voltage Range (Min-Max) (Voc)	31V-45V
Battery Boost Voltage (Adjustable)	28.8V (Default Setting)
Battery Low Cut (Adjustable)	20.8V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)
Supported Battery Types	Flat, Tubular
Discharging Current	50 Amp.
Display Type	LCD
Dimensions (L*W*H) CM	42*39*24.5
Net Weight	16.5 Kg apx.



Pure Sine Wave **SOLAR HYBRID PCU** 2100 VA-3000 VA, 24V

SUPER NOVA SERIES

- Related AC power 2100 VA - 3000 VA, 24V
- Operating voltage 100-290V
- Maximum supported panel power from 24V up to 2000Wp
- Charge Controller Rating - 50A/24V, with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Max : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Max charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life.

Specifications

Model	Super Nova 2500	Super Nova 3500
Capacity (VA)	2100 VA	3000 VA
Nominal Battery Voltage (Vdc)	24V	
Charge Controller Type	PWM	
Charge Controller Rating	50 Amp/12V	
Maximum PV Power	1800 Wp	
Input Voltage Range (Min-Max) (Voc)	31V-45V	
Battery Boost Voltage (Adjustable)	28.8V (Default Setting)	
Battery Low Cut (Adjustable)	20.8V (Default Setting)	
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)	
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)	
Supported Battery Types	Flat, Tubular	
Discharging Current	70 Amp.	100 Amp.
Display Type	LCD	
Dimensions (L*W*H) CM	42*39*24.5	
Net Weight	18 Kg apx.	23Kg apx.



Pure Sine Wave **SOLAR HYBRID PCU 3 KVA, 24V**

SUPER NOVA SERIES

- Related AC power 3 KVA, 24V
- Operating voltage 100-290V
- Maximum supported panel power from 24V up to 3600Wp
- Charge Controller Rating - 70A/48V-50A/96V with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Ma x : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Ma x charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Super Nova 4000
Capacity (VA)	3 KVA
Nominal Battery Voltage (Vdc)	24V
Charge Controller Type	PWM
Charge Controller Rating	50 Amp/48V
Maximum PV Power	3600 Wp
Input Voltage Range (Min-Max) (Voc)	70V-90V
Battery Boost Voltage (Adjustable)	26.6V (Default Setting)
Battery Low Cut (Adjustable)	41.6V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)
Supported Battery Types	Flat, Tubular, VRLA (SMF)
Discharging Current	50 Amp.
Display Type	LCD
Dimensions (L*W*H) CM	510*390*630
Net Weight	46.5 Kg apx.



Pure Sine Wave SOLAR HYBRID PCU 5 KVA 48V/96V

SUPER NOVA & COSMO SERIES

- Related AC power 5200VA 48V/96V
- Operating voltage 100-290V
- Maximum supported panel power from 48V/96V up to 5000Wp
- Charge Controller Rating - 70A/48V-50A/96V with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Ma x : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Ma x charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Super Nova 6500	Cosmo 6500
Capacity (VA)	5 KVA	
Nominal Battery Voltage (Vdc)	48V	96V
Charge Controller Type	PWM	
Charge Controller Rating	70 Amp/48V	50AMP/96V
Maximum PV Power	5000 Wp	
Input Voltage Range (Min-Max) (Voc)	70V-90V	130V-150V
Battery Boost Voltage (Adjustable)	57.6V (Default Setting)	115V (Default Setting)
Battery Low Cut (Adjustable)	41.6V (Default Setting)	83.2V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)	
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)	
Supported Battery Types	Flat, Tubular, VRLA (SMF)	
Discharging Current	100 Amp.	50 Amp.
Display Type	LCD	
Dimensions (L*W*H) CM	510*390*630	
Net Weight	46.5 Kg apx..	45.8 Kg apx.



Pure Sine Wave SOLAR HYBRID PCU 7.5-10 KVA, 96V/120V

COSMO SERIES

- Related AC power 7.5-10 KVA 96V/120V
- Operating voltage 100-290V
- Maximum supported panel power from 96V/120V up to 8000Wp
- Charge Controller Rating - 70A/96V-50A/120V with 98% efficiency for fast charging
- Intelligent overload sensing circuitry with auto retries facility
- Changeover Time Max : <30ms (in Normal Mode) & <6ms (in UPS Mode)
- Support dual mode of working, UPS Mode (180-260VAC) & Normal Mode (100-290VAC)
- Max charging current 5A to 18A (User Programmable)
- Programmable thermal protection : cooling fan which operates as needed
- High power new generation MOSFET cable to handle high in-rush/surge current
- Double stage MOSFET over current protection by measuring Rds ON
- Highest efficiency at lower cost
- Pure Sine Wave Output with low Total Harmonic Distortion (THD)
- Solar PV reverse voltage protection
- Electronic Over Current Charging Protection
- Reverse Current Flow Protection from Battery to Solar Panel Generally during night
- Designed for continuous reliable and robust operation
- Different Battery selection mode to enhance the battery life

Specifications

Model	Cosmo 10k	Cosmo 12.5k
Capacity (VA)	7.5 KVA	10 KVA
Nominal Battery Voltage (Vdc)	96V	120V
Charge Controller Type	PWM	
Charge Controller Rating	70 Amp/96V	70AMP/120V
Maximum PV Power	7500 Wp	10000 Wp
Rated Output Power (KVA)	7.5 KVA	10 KVA
Input Voltage Range (Min-Max) (Voc)	130V-150V	180V-210V
Battery Boost Voltage (Adjustable)	115V (Default Setting)	114V (Default Setting)
Battery Low Cut (Adjustable)	83.2V (Default Setting)	104V (Default Setting)
Grid Charging Current (Adjustable)	15 Amp. (Default Setting)	
Solar Charging Current (Adjustable)	30 Amp. (Default Setting)	
Supported Battery Types	Flat, Tubular, VRLA (SMF)	
Discharging Current	70 Amp.	50 Amp.
Output Current	27 Amp.	35 Amp.
Display Type	LCD	
Dimensions (L*W*H) CM	510*390*630	
Net Weight	59 Kg apx.	69 Kg apx.



Pure Sine Wave SOLAR HYBRID PCU 3 KVA to 10 KVA

COMET & COMET PRO+ SERIES

- Multi Channel Interleaved MPPT Technology with Tracking efficiency 99.5%
- More Efficient and High Reliable
- Smart Solar Selection for max. utilization of Solar Power
- Remote Monitoring & Controlling of the Solar PCU through WiFi/LAN/GPRS (optional)
- Models - 2.5 KVA 24V, 4 KVA 48V, 5 KVA 48V, 5 KVA 96V, 7.5 KVA 96V, 10 KVA 120V

Specifications

Mains AC Lower Voltage Limit	100 ± 5 VAC
Mains AC Lower Recovery Volt.	110 ± 5 VAC
Mains AC Higher Voltage Limit	280 ± 5 VAC
Mains AC Higher Recovery Volt.	270 ± 5 VAC
Battery Low Cut-off Voltage (set table)	10.6 ± 0.2 V (per battery by default)
Mains O/P Frequency	Same as output
UPS O/P Frequency	50 ± 1.0 Hz
Charge Controller Type	MPPT Based
Input Current per Channel (max. Imp)	As per model
Solar Battery Low Cut Voltage (adjustable)	11.5V Default
PV Reverse Polarity Protection	Available
Reverse Current flow to PV Protection	Available
Trickle Charging Current Limit	0.5 ± 0.3 A
Boost Voltage (set table)	14.4 ± 0.1 V (per battery by default)
Float Voltage	13.6 ± 0.2 V (per battery)
Overload	100 + 3% (with auto reset function)
Short Circuit Protection	> 300% Load (with manual reset function)

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RAKHE SAB CONTROL MEIN



PRODUCT RANGE

- Power Transformers ▪ Distribution Transformers ▪ Servo Voltage Stabilizers ▪ Rolling Contact/Linear Type Servo Stabilizers
- Automatic Voltage Stabilizers ▪ Online UPS ▪ Solar Power Generation System (SPGS) ▪ HT AVR ▪ Built-in AVR ▪ CVT
- Variable Auto Transformer (Variac) ▪ HT & LT Electrical Panels ▪ Furnace Transformers ▪ Pad Mounted Transformers
- Isolation Transformers ▪ Compact Sub Stations (CSS) ▪ Packaged Sub Stations (PSS) ▪ Step Up & Step Down Transformers
- Special Type of Transformers ▪ Solar Inverter ▪ Solar Battery ▪ Solar Panels ▪ Geysers



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