

NETPRO[®]-33 H Series

45 ~ 800 kVA 3 Phase / 3 Phase

Uninterruptible Power Supply



GENERAL FEATURES

Pure Sine Wave Output Online Ups
Double Conversion Technology
DSP Microprocessor Controlled
IGBT Rectifier And Inverter
Active Input Power Factor Correction PFC (≥ 0.99)
Low Input Thdi ($< 3\%$) With Excellent Generator Compatibility
Low Output Thdv $< 3-5\%$ Perfect Energy For Loads
Excellent Compatibility With Loads
Adjustable Input/Output Voltage And Frequency
Wide Input Voltage Range (160 - 260 VAC)
High Efficiency Up To 95%
Ultra High Efficiency With Smart Eco Mode (98%)
Reliable Parallel/ Redundant Operation With Load Synchronization
Smart Fan Control
EMI / RFI Filter
Short Circuit, High/Low Voltage And Overload Protections
Adjustable Time For Battery Operation
Battery Deep Discharge Protection
Temperature Controllable Battery Charger, Selectable Charge Current
Standard Static And Manual By-Pass
240 X 320 Touch Screen Graphical LCD Display
Advanced Fault Identification, 1000 PCS Alert/Event Memory
Advanced Communication Options With RS232/RS485

100% Made in TURKEY

Environment Friendly Design, The Most Silent in Its Class

Low Installation and Operation Costs

Easy Maintenance and Service

10 Years Spare Part Availability

7/24 Technical Service and Customer Services

OPTIONAL FEATURES

Advanced Remote Monitoring And Management With SNMP
4 Programmable Dry Contacts
Easy Scalability With Parallelling
Gprs Modem/Can Bus Communication Options
Microprocessor And Sensor Controlled Smart Battery Management
Easy Scalability With Parallelling
Galvanic Iolation Transformer
Special Input/Output Options

STANDARDS

EN 62040-1 Safety , EN 62040-2 EMC , EN 62040-3 LVD , CE , ISO 9001:2008

Uninterrupted Power Uninterrupted Service



SERVO-MATIK[®]
ELEKTRONİK SİSTEMLER SAN. VE TİC. LTD. ŞTİ.

www.servomatik.com - info@servomatik.com

TECHNICAL SPECIFICATIONS

Model	NETPRO - 33 H UNINTERRUPTED POWER SUPPLY												
Power (KVA)	45	60	80	100	120	160	200	250	320	400	500	600	800
INPUT													
Nominal Voltage	220V AC / 230V AC / 240V AC (Ph-N)						380V AC / 400V AC / 415V AC (3Ph+N)						
Voltage Range	-%20 / +%15												
Nominal Frequency	50 Hz / 60 Hz												
Frequency Tolerance	± %10												
Input Power Factor	≥ 0,99												
Total Harmonic Distortion THDi	< %5												
OUTPUT													
Nominal Voltage	380 VAC / 400 VAC / 415 VAC (3Ph + N)												
Voltage Tolerance	± %1												
Nominal Frequency	50 Hz / 60 Hz												
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)												
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)												
Crest Factor	3:1												
Power Factor	0,8												
Output Waveform	Pure Sine												
Overload	%100 - %124 : 10 min. / %125 - %150: 1 min.												
STATIC BYPASS													
Input Voltage	220V AC / 230V AC / 240V AC (Ph-N)						380V AC / 400V AC / 415V AC (3Ph+N)						
Transition Time	< 4 ms.												
Overload Capacity	%150												
BATTERY													
Voltage / Pcs	Changeable (Standart 60 pcs12 VDC)												
Type	Full Maintenance Free Dry Type												
Charge Current / Temperature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control												
GENERAL													
Operation Technology	On-Line Double Conversion												
Control	SPWM Controlled IGBT Rectifier & Inverter												
Efficiency	Up to %95												
Paralleling and Redundancy Features	Optional												
Protection	Overload, Over Temperature, Input-Output short circuit												
COMMUNICATION													
Display	240 x 320 Graphical LCD (Touch Screen)												
Warning / Event Memory	1000 Pcs												
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)												
Software	PC Software												
ENVIROMENTAL PROPERTIES													
Operation Technology	-10°C +50°C												
Relative Humidity	%0 ~ %95 (non-condensing)												
Altitude	≤ 3000 m												
Noise	≤ 65 dB												
Protection Class	IP20												
PHYSICAL													
Dimensions (W x D x H) mm	543 x 835 x 1361					1600 x 800 x 1800							

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SERVO-MATIK Elektronik Sistemler San. Tic. Ltd. Şti.

Ortabayır Mah. Dereboyu Cad. No:110 Gültepe - Kağıthane - İstanbul - Turkey

Mobile: +90 533 292 09 61 Phone: +90 212 211 22 85 Fax: 0212 212 17 93 info@servomatik.com www.servomatik.com

NETPRO®- 33 S Series

10 ~ 40 kVA 3 Phase / 3 Phase

Uninterruptible Power Supply



GENERAL FEATURES

Pure sine wave output Online UPS
Double conversion technology (double conversion)
DSP microprocessor control improved performance
IGBT rectifier and inverter
Static By-Pass
Wide input voltage range
Start from battery (Cold Start)
Input power factor correction (PFC)
High efficiency and energy saving
EMI / RFI Filtration
Selectable Input / Output Voltage and Frequency
Advanced battery charger
Communication with RS232
Battery deep discharge protection
Easy operation with LCD panel
Energy saving with high efficiency
Maximum security with CPU control
Compact, lightweight, quiet design

100% Made in TURKEY
Environment Friendly Design
Low Installation and Operation Costs
Easy Maintenance and Service
10 Years Spare Part Availability
7/24 Technical Service and Customer Services

OPTIONAL FEATURES

Long backup time with additional battery
Easy power increase with parallelism
Galvanic isolation traf
Special input / output options
Advanced remote monitoring and management option with SNMP

STANDARTS

EN 62040-1 Safety
EN 62040-2 EMC
EN 62040-3 LVD
CE, ISO 9001: 2008

Uninterrupted Power Uninterrupted Service



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TECHNICAL SPECIFICATIONS

Model	NETPRO-33 S UNINTERRUPTED POWER SUPPLY				
Power (KVA)	10	15	20	30	40
INPUT					
Nominal Voltage	208V AC / 220V AC / 230V AC / 240V AC (Phase-Neutral) 360V AC / 380V AC / 400V AC / 415V AC (3 Phase + Neutral)				
Voltage Range	-%13 / +% 25				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	± %10				
Input Power Factor	≥ 0,99				
Total Harmonic Distortion THDi	≤ %5				
OUTPUT					
Nominal Voltage	380 VAC / 400 VAC / 415 VAC (3Ph+ N)				
Voltage Tolerance	± %1				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	%0.2 (Self Synchronize) - %2 (Bypass Synchronize)				
Total Harmonic Distortion THDv	< %3 (Linear Load) < %5 (Nonlinear Load)				
Crest Factor	3:1				
Power Factor	0,8				
Output Waveform	Pure Sine				
Overload	%100 - %124 : 10 min / %125 - %150: 1 min				
STATIC BYPASS					
Input Voltage	220V AC ± % 15 (Ph-N) 380V AC ± % 15 (3Ph+N)				
Transition Time	≤ 4 ms.				
Overload Capacity	%150				
BATTERY					
Pcs / Voltage	20 / 12V				30 / 12V (symmetric)
Type	Full Maintenance Free Dry Type				
Charge Current / Temperature Adj. Charge	Selectable / Microprocessor and Smart Sensor Control				
GENERAL					
Operation Technology	On-Line Double Conversion				
Control	SPWM Controlled IGBT Rectifier & Inverter				
Efficiency	Up to %93				
Paralleling & Redundancy Features	Optional				
Protection	Overload, Over Temperature, Output Short Circuit				
COMMUNICATION					
Display	LCD / LED				
Advanced Communication	RS232, Dry Contacts, SNMP , USB,(optional)				
Software	PC Software				
ENVIRONMENTAL PROPERTIES					
Operation Temperature	-10°C ~ +50°C				
Relative Humidity	%0 ~ %95 (non-condensing)				
Altitude	≤ 3000 m				
Noise	≤ 55dB				
Protection Class	IP20				
PHYSICAL					
Dimensions (W x D x H) mm	350 x 785 x 858	350 x 785 x 1078		710 x 470 x 1150	

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Ortabayır Mah. Dereboyu Cad. No:113 Gültepe - Kağıthane - İstanbul - Turkey

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