

NETPRO-33 Series

10 ~ 600 kVA 3 Phases / 3 Phases

Uninterruptible Power Supply

FACTORIES



HOSPITALS



HOTELS



SERVER ROOMS



SHOPPING CENTERS



INDUSTRIAL APPLICATIONS



EMERGENCY SYSTEMS



MILITARY APPLICATIONS

GENERAL FEATURES

Advanced Microprocessor Control
True Online Double Conversion
IGBT Rectifier and Inverter
Active Input Power Factor Correction (≥ 0.99)
Low Input THDi $< 5\%$ Perfect Generator Compatibility
Low Output THDv $< 3-5\%$ Perfect Energy for your Loads
Excellent Compability with Different Power Factor Loads
Selectable Input/Output Voltage and Frequency
Wide Input Voltage Range
High Efficiency Up To 93%
Ultra High Efficiency with Smart Eco Mode (%98)
Reliable Parallel / Redundant Operation via Load Synchronization
Smart Fan Control
EMI / RFI Filter
Start on Battery Feature (Cold Start)
Short Circuit, High/Low Voltage and Overload Protections
Adjustable Time for Battery Operation
Battery Deep Discharge Protection
Standard Static ve Maintenance By-Pass
Temperature Compensated Battery Charge, Selectable Charge Current
240 x 320 Touch Screen Graphical LCD Display (**First in TURKEY !**)
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 Options via SNMP
4 Programmable Dry Contacts
GPRS Modem / CAN BUS Communication Options
Easy Scalability with Parallelling
Microprocessor and Sensor Controlled Smart Battery Management
Customizable Input/Output Options

STANDARDS

EN 62040-1 (Safety), EN 62040-2 (EMC), EN 62040-3

Uninterrupted Power Uninterrupted Service



TECHNICAL SPECIFICATIONS

Model	NETPRO 33														
Power (kVA)	10	15	20	30	45	60	80	100	120	160	200	250	300	400	
INPUT															
Nominal Voltage / No. of Phases	220/380 VAC / 230/400 VAC / 240/415 VAC (3 P + N)														
Voltage Range	-%20 / +%15														
Nominal Frequency	50 Hz / 60 Hz														
Frequency Range	± 10%														
Input Power Factor	≥ 99														
THDi	< 5%														
OUTPUT															
Nominal Voltage / No. of Phases	380 VAC / 400 VAC / 415 VAC (3 P + N)														
Voltage Tolerance	± 1%														
Nominal Frequency	50 Hz / 60 Hz														
Frequency Tolerance	50 Hz ± 0,1 / 60 Hz ± 0,1														
Power Factor	0,8														
Crest Factor	3:1														
THDv	< 3% (Linear Load) < 5% (Non-Linear Load)														
Waveform	Pure Sine														
Overload Operation	10 min. at 125% load / 1 min. at 150% load														
STATIC BY-PASS															
Voltage	380 / 400 / 415 V (3 P + N)														
Transfer Time	0 ms.														
Overload Capacity	150%														
BATTERY															
Voltage / Quantity	Standard 2x30 Pcs. 12 V														
Type	Maintenance Free Dry Type														
Charging Current Temperature Compensated Charge	Selectable Microprocessor and Smart Sensor Controlled														
GENERAL															
Technology	On-Line Double Conversion														
Control	SPWM Controlled IGBT Rectifier and Inverter														
Efficiency	Up To 93%														
Parallel/Redundant Operation	Optional														
Protection	Overload, Over Temperature, Input/Output Short Circuit														
COMMUNICATION															
Display	240 x 320 Graphical LCD (Touch Screen Display)														
Alert / Event Memory	1000 pcs.														
Advanced Communication	RS232, 4 Programmable Dry Contacts, GPRS (Optional), SNMP (Optional)														
Software	Netpro PC Software														
ENVIRONMENT															
Operating / Storage Temperature Range	0 °C ~ 40 °C / -15 °C ~ +55 °C														
Relative Humidity	0% – 95% (Non-Condensing)														
Altitude	≤ 2000 m														
Noise (from 1 meter distance)	≤ 50 dB					≤ 60 dB					≤ 65 dB				
Protection Class	IP20														
PHYSICAL															
Dimensions (WxDxH) cm	41 x 78 x 125					51 x 84 x 156					120 x 84 x 178				

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NETPRO-33P Series

300 ~ 800 kVA 3 Phases / 3 Phases

Uninterruptible Power Supply



GENERAL FEATURES

Advanced microprocessor control
True online double conversion
DSP controlled IGBT rectifier and inverter
Active Power Factor Correctoin (PFC) ≥ 0.99
Low input THDi $< \%5$ for perfect generator compatibility
Low outputs THDv $< \%3-5$ for perfect energy
Perfect compatibility with loads of different power factors
Selectable input / output voltag and frequency
Wide input voltage range
High efficiency up to $\%93$
Reliable parallel/redundant operation with load synchronization
Intellectual fan control
EMI / RFI filters
Short circuit, overload, high/low voltage protection
Start from battery (Cold Start)
Selectable backup time
Battery deep discharge protection
Temperature controlled charge, slectable charge current
Standart static and manual By-Pass
Advanced error/fault identification, 500 warning/event records memory
Advanced PC connectivity 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

Remote moitor and control with SNMP
Programmable dry contacts
GPRS modem / MOD BUS options
Easy scaling with parallelling options
Isolation transformers
Custom input / output options

STANDARTS

EN 62040-1 (Safety), EN 62040-2 (EMC), EN 62040-3

Uninterrupted Power Uninterrupted Service



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TECHNICAL SPECIFICATIONS

Model	NETPRO-33P				
Nominal Power (kVA)	300	400	500	600	800
INPUT					
Nominal Voltage / Phase Count	220/380 VAC / 230/400 VAC / 240/415 VAC (3 Phase + Neutral + PE)				
Input Voltage Range	± %20				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	± %5				
Input Power Factor	0,98 - 0,99				
Total Harmonic Distortion THDi	< %5				
OUTPUT					
Nominal Voltage / Phase Count	380 VAC / 400 VAC / 415 VAC (3 Phase + Neutral + PE)				
Voltage Tolerance	± %1				
Nominal Frequency	50 Hz / 60 Hz				
Frequency Tolerance	50 Hz / 60 Hz ± %2 (mains sync); 50 Hz / 60 Hz ± 0,5 Hz (free operation)				
Power Factor	0,8				
Crest Factor	3:1				
Output Voltage Harmonics THDv	< %3 (linear load) <%5 (non-linear load)				
Output Waveform	Pure Sine Wave				
Overload Capacity	10 min at %125 load; 1 min at %150 load; bypass at load >%150.				
STATIC BYPASS					
Input Voltage	380 / 400 / 415 VAC ± %20				
Frequency	50 Hz ± %10				
Short Circuit Protection	Electronical protection, fuse				
BATTERY					
Volateg / Quantity	Varying (Standart 2x30 pcs 12 VDC)				
Type	Maintenance free dry batteries				
Battery Protection	Deep discharge protection				
GENERAL					
Technology	On-Line double conversion				
Control	DSP controlled IGBT rectifier and inverter				
Efficiency	%93				
Parallel / Redundant Operation	Optional				
Protection	Overload, overheating, input/output short circuit				
COMMUNICATION					
Display	Graphical LCD panel, Mimic diagram and control panel				
Warnings / LED	Mains, Battery, Inverter, Load, Error indicators				
Advanced Communications	RS232, Dry contacts, Modem (Optional), Modbus (Optional), SNMP (Optional)				
ENVIRONMENT					
Operating Temperature	0 °C ~ +40 °C				
Storage Temperature	-15 °C ~ +55 °C				
Relative Humidity	%0 - %95 (Non-condensing)				
Altitude	≤ 1000 m (from 1 meter distance)				
Acoustic Noise	≤ 75 dB				
Protection Class	IP20				
PHYSICAL PARAMETERS					
Dimensions (WxDxH) cm	78 x 126 x 190	160 x 86,8 x 180	219 x 81 x 203	219 x 81 x 203	321,6 x 86,8 x 180
Height (without batteries), kg	890	1370	1480	1690	1750

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