



www.spowerbpe.com

# THREE-PHASE FORCE SERIES

TRUE CHOISE FOR YOUR ENERGY



## FORCE 30-400 KVA Three-Phase ONLINE UPS



Spower's Digital signal processor (DSP) is a specialized microprocessor (or a SIP block), with its architecture optimized for the operational needs of digital signal processing for Spower UPS Series

Advanced 3 Phase Power Protection for Small-Medium Server Rooms, Data Centers, Industrial, Telecom and Other Mission-Critical Applications

Online UPS 30-400 kVA UPS Three Phase/Three Phase

- True On Line - Double Conversion Technology
- IGBT PWM Rectifier & Inverter Technology
- DSP Control
- Low Input Current THD (<3%)
- High Input Power Factor (>0.99)
- High Efficiency up to 93%
- DC-DC Charger/Booster
- Wide Input Voltage Range
- Advanced Battery Management
- Short Circuit and Overload Protection
- Unlimited Number of Parallellable Modules
- Selectable Number of Batteries
- 500 Real Time Event Log with Detailed Parameters
- Static & Manual Bypass Operation
- Overload and Short Circuit Protection
- Small Footprint and Easy Maintenance
- Advanced Communication Capabilities
- Perfect Generator Compatibility
- Customizable as Frequency Converter
- Inbuilt Isolation Galvanic Transformer
- Auto Restart Function
- Local and Remote Emergency Power Off
- Cold Start Function



## FORCE SERIES<sup>®</sup> EXPERT UPS TECHNOLOGY

For Small - Medium- Large Capacities

- \*Hospitals
- \*Factories
- \*Telecom
- \*Data Centers
- \*Other Necessities...

Available Force UPS Three Phase Sizes:

-10,15,20,30,40,60,80,100,120,160,200,250,300 and 400Kva  
Three Phase input and Ouput

PARALEL UPS FEATURES





MODEL		FORCE THREE PHASE IN - THREE PHASE OUT												
Capacity VA		10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA	300kVA	400kVA
Power Watt		8kW	12kW	16kW	24kW	32kW	48kW	64kW	80kW	96kW	120kW	160kW	240kW	360kW
Power Factor		0.8												
<b>INPUT</b>														
Input Voltage Range		220 ± %20 (L-N) veya 380 ± %20 (L-L) 3P + N + PE												
Input Power Factor		>0.99												
Input Frequency Range		50Hz ± 10% / 60Hz ± 10% (selectable)												
Rectifier		PWM IGBT Technology PFC												
Total Harmonic Distortion (THDI)		<%3												
<b>OUTPUT</b>														
Output Voltage Range		220/380 VAC (230/400 VAC) 3 Phase + N ± 1%												
Recovery Time		± 1 static, +3 dynamic at 100% load , 5msn												
Efficiency		Normal Mode up to %93 Eco Mode %98												
Output Frequency Range		50Hz/60Hz ± 0,01% (Battery mode)												
Output THD		Linear Load <%2 / Non Linear Load <%3												
Crest Factor		03:01												
Overload Capacity		At %125 load 10 min. %150 load 1 min.												
Protection		IGBT Controlled Electronic Short Circuit Protection												
<b>BATTERY</b>														
Type		VRLA/AGM/GEL												
Quantity		28, 38, 40	38,40	38	50									
Battery Test		Programmable without load , Automatic Battery test												
Battery Temperature		20 C -25 C ( for maximum efficiency)												
<b>BY-PASS</b>														
By-pass Input Voltage Range		230 / 400 VAC (220 / 380VAC) 3 FAZ + N ± 10% (selectable)												
<b>COMMUNICATION</b>														
Communication Port		RS232 / RS485 Rj11 / SNMP												
Dry Contact Alarms		7 dry contact alarms (voltage, overload, temperature, pressure, water, vs.)												
Software		SPOWER net software, Megatech, SEC, vs. Compatibility with all protocols												
Central Service & Monitoring		Available												
SNMP Adaptor		Optional												
Advanced Communic.Options		MOD-Bus/ J-Bus / Profibus / Modbus / Web / Tel-net / GPRS / CAN - Bus ,SNMP												
<b>CERTIFICATES</b>														
Quality		ISO 9001 : 2008 , ISO14001												
Standard		CE, TSEK												
Safety		EN62040-1-1, IEC60950												
EMC/LVD		EN62040-2, Class A												
<b>GENERAL</b>														
Technology		Online, Double Conversion, Transformerless, DSP Controlled Full Digital, SMD Technology Main Board (All in one) 1/1, 3/1, 1/3, 3/3 Input - Output, Customizable as frequency converter												
Design		Modular Design enable easy, fast maintenance and serviceability (Replaceable Power and Batterie Module)												
Front Panel		320x240 LCD Front Panel + Mimic Diagram Turkish, English, Russian, German Menu												
Running Temperature		For Ups 0 - 40 C, For Battery 22 - 25 C												
Protections		Overload, Short Circuit, Over Temperature, High Charge, Low Charge, Over Humidity												
Protection Class		IP20												
Humidity		0 - 95 % ( non condensing)												
Altitude		<1000m.												
Noise		<60 dBA												
Alerts		500 Event Log - Operational Status Record												
Generator Compatibility		Soft Start , Power walk in 5-30 sec. (adjustable)												
Parallel Operation		N+1 Redundant Parallel, Unlimited Number of Paralellable Modules												
EMI / RFI		Standard												
EPO (Emergency Power Off)		Standard												
Galvanic Isolation Transformer		Optional												
Service & Maintenance		7 / 24 Tele Service												
Net Weight (without battery)		115 kg	115 kg	125 kg	150 kg	156 kg.	165 kg.	320 kg	360 kg	385 kg	550 kg	575 kg	700 kg	750 kg
Dimensions (WxDxH) mm		46 x 80,5 x119cm.						88,2 x 77 x166 cm			105,5 x 80 x190,5 cm		150 x 80 x190,5 cm	



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- Online UPS
- Modular UPS
- Dynamic UPS
- Line Interactive UPS
- Industrial UPS
- Railway UPS
- Battery Monitoring
- Voltage Regulator
- Inverter
- Renewable Energy Systems
- Batteries
- Rectifiers - Battery Chargers



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real source of power