PHOENIX **SU** ONLINE UPS

Critical Power Protection, Zero Downtime!

The new PHOENIX **SU** UPS offers flexibility, versatility & adaptability for critical applications in small&medium businesses worldwide.



Key Applications



Home Office



& IT

Environment

Workshop

Telecom,

Internet

Fiberoptics







& Medical

Facilities





Industry

& Proces

Control

Home Security Appliances Systems Laboratory ATM M Equipment & B

ATM Machines & Banks

Power Protection! Affordable, Dependable!

Emergency

Product Snapshot

Delivers An Outstanding Power Performance & Increased Power Quality

- True VFI | online double conversion design guarantees the complete isolation of critical load from any mains disturbances.
- Transformerless; high frequency, IGBT rectifier & inverter design via PWM technique presents active power factor correction at input which lowers THDi at input & maximizes the input power factor as > 0,996. This leads minimized generator : UPS sizing, less investment and costs due to very low harmonics. The system reduces the effect on utility and the loads connected to the same network with the ups itself. IGBT design at the inverter stage also brings high output power as 0,9 while reducing the THDv as low as 1%.
- Twin DSP microprocessor control offers maximized reliability, total protection of UPS & critical load aganist failures & damages, unbeatable parallel redundant operation in business-critical environments and applications.
- Transformerless design also brings a compact, lightweight design which brings ease of transport, installation and maximizes power density in minimum footprint as low as 0,05 m2 for a 1 kVA **SU** UPS
- Greater adaptability, versatility in system configurations, higher immunity to harmonics, sudden inrush currents & disturbances in utility power. Flexible & versatile to vast of applications & environments.

Controlling Both CAPEX and OPEX

- Delivers industry leading 95%* AC~AC online double-conversion efficiency without sacrificing reliability. Thanks to its highly efficient design, savings can reach up to 35% in dissipated energy in one year compared to traditional legacy UPS [87%] systems resulting in a faster payback period of 4 years as ROI.
- Ease of installation & deployment for some models plug&play designreduced cooling infrastructure requirement. Keeping power & cooling infrastructure cost at minimum [CAPEX] along with operating costs at minimum [OPEX], UPS **SU** gives the power of control.
- Scalability Pay as You Grow! Capacity can flex to meet power infrastructure growth by adding an additional ups in the field whilist offering true redundancy, ease of expansion from small-sized installations to mid-sized infrastructures.

The UPS **SU** is the premium of TSINE's single phase PHOENIX UPS family thanks to its innovative DSP controlled, transformerless-high frequency, IGBT Rectifier & Inverter design.

PHOENIX *SU* offers extended power protection performance, increased power quality & continuous power for any type of small-mid range applications via its true online double conversion, voltage-frequency indeendent [VFI] design which isolates the critical output load aganist any faillures and disturbances in utility power whilst powering it continuously by the inverter which supplies a sinusoidal voltage, filtered & conditioned in terms of voltage, form & frequency. Input and output filters provide significant further immunity from mains disturbances & lightning strikes. The UPS *SU* is one of the best UPS systems available on the market with

its efficiency values & power density, proven reliability and maximised availability which dramatically decrease operational downtimes and costs during its lifetime.

PHOENIX **SU** comes with standard communication, supervision & diagnostics features such as LCD display & RS232 as standard, USB, Dry Contact interfaces & network card as an option. The UPS **SU** is the smart choice for mission-critical applicatons requiring the highest levels of reliability.

Advanced Battery Care

The UPS PHOENIX **SU** provides extended service life for batteries via its IBC [Innovative Battery Care] Extendable scalable runtime feature of The UPS **SU** offers the ultimate solution for business continuity applications requiring long runtimes.

Reliability, Availability and Serviceability (RAS)

Maximized availability and reliability by the power engineering at its top level, PHOENIX *SU* offers very robust & reliable power protection, this also leads minimized downtime and highest level of availability. Very high level of MTBF [Mean Time Between Failures] and very low MTTR [Mean Time to Repair] ensures the critical load not to fail for its duty. Serviceability is a measure of the system to be recovered after a disaster. A min. of 15 mins. of enough for a technician to diagnose and recover the system to reduce the downtime for business.



UPS Rating

Rated Power [kVA]	1	2	3	6	10	15	20	
Active Power [kW]	0,9	1,8	2,7	5,4	9	13,5	18 [0,9 P	ower Factor]
Active Power [kw]	1	2	3	6	10	15	20 [Unity	, 1, kVA=kW
Model Codes	PSU0901	1 kVA;	PSU0902	2 kVA;	PS	U0903	3 kVA;	Power Factor]
for Standard Back Up UPS	PSU0906	6 kVA;	PSU0910	10 kVA	A; PS	U0915	15 kVA;	
	PSU0920	20 kVA	A;					,
	PSU0901L	.R 1 k∖	/A; PSU090	2LR 2 k	‹VA;	PSU09	03LR 3 kVA	;
for Long Runtime UPS	PSU0906L	.R 6 k∖	/A; PSU091	0LR 10	kVA;	PSU09	15LR 15 kV	A;
	PSU0920L	.R 20 k	VA;					

General Characteristics

MTBF/ MTTR	Over 225000 Hours/ Under 30 Minutes
UPS Type & Technology	VFI Online Double Conversion [Complete Isolation of Output Load with Any Mains Disturbances] High Frequency Operation, IGBT Rectifier & Inverter, Transformerless Design Twin DSP Microprocessor Control via PWM Technique
62040-3	COMPATIBLE
Power Factor	0.9, Optional Unity PF, kVA=kW, 1.0
Input Voltage Range	120 ~ 295 ±5 VAC 80 ~ 295 ±5 VAC [at 50% Rated Los
True Redundancy	N+X, N+1Redundant Configurations
Parallel Configuration [N+1]	Up To 4 Units
Standard Protection Features	Overload, Low Battery, Deep Discharge Protection, Input Power Limiting, Phase Reversal, Power Module Over Temperature, Over Current, High Temperature Alert, Smart Short Circuit, Load Current Limiting, Charging Current Limiting, Temperature Compensated Charging.
Operating Conditions	20 °C, <1000m Above Sea Level, <45% to 55% RH, for Best Performance
Cooling/ Isolation	Forced Air Cooling via Redundant Fans, Smart Fan Speed Control
Display & Parameters	1-3 kVA LED Display: Utility or Bypass, Battery Low, Battery Abnormal, Overload, Site Wiring Fault, Service Mode, UPS Off, UPS Abnormal Parameters Shown on LCD: Input /Output Voltage and Frequency Values, Load%, Battery Voltage, Internal Temperature Alarms: Line Failure, Battery Low, Over Load, Failure Events 6*20 kVA LED & LCD Display: Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload and Transferring with Interruption & UPS Fault Parameters Shown on LCD: Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature. Self Diagnostics: Upon Powering-on, Front Panel Setting & Softwar Control, 24-hour routine checking Audible & Visual Alarms: Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions
Maintenance Bypass	STANDARD
Material [Casing]/ Colour	BLACK
Cable Entry	REAR/ FRONT BOTTOM
Efficiency	
AC~AC Mode	92% 92.5% 93.3% 95% 95% 95% 95%
Eco-Mode	≥ 98% ≥ 98%
DC~AC/ Battery Mode	≥ 95% ≥ 96%
Input	
Rated Voltage & Range [at 100% Rated Load	208/ 220/ 230/ 240 VAC 1P+N+PE [Selectable via LCD] d] 145 ~ 295 ±5 VAC 165 ~ 295 ±5 VAC 120 ~ 295 ±5 VAC 80 ~ 295 ±5 VAC

120 ~ 255 ±5 VAC	00 ~ 295 ±5 VAC
50/ 60 Hz [Automatic Self : 45-55 Hz.± 0,5% / 55-65 Hz.± 0,5%	Synchronization] 40-70 Hz.± 0,5%
≥ 0,99 Active Power Factor Corre	≥ 0,99 ction Circuitry
< 5%	
24 48 72	192 192 192 192
	45-55 Hz.± 0,5% / 55-65 Hz.± 0,5% ≥ 0,99 Active Power Factor Corre

Kaleu vollage [DC]	24	40	12	I	92	192	192	192
Intelligent Battery Managemen				npensated 4	4 Sta	ge Cha	arging,	
Charging Capacity Operating Temperature	De Sch	eduled	/Autom	rotection, atic & Man ver, 20°C - 2				attery Lifetime



TSINE ELEKTRONİK SANAYİ VE TİCARET LTD. ŞTİ.

Beyit St., No: 55, Yukarı Dudullu, Umraniye P.O. BOX: 34775 ISTANBUL / TURKEY

Output Characteristics

Output Characteristics		
Rated Voltage & Accuracy	208/ 220/ 230/ 240 VAC 1P+N+ < ±1% at 100% Rated Linear-St. < ±2% at Non-Linear Load; < ±	atic Load, ±5% at Dynamic Loads
Rated Frequency & Accuracy	50/ 60 Hz (Selectable), ±0,2 Hz ±0,2 Hz (Battery Mode)	z (Synchronized to Mains)
Power Factor	0.9, Optional Unity PF, kVA=kV	V, 1.0
/oltage Distortion [THDv]	< 2% at 100% Linear Load < 5% at Non-linear Load	< 1% < 4%
Waveform	Pure Sinewave	
Fransfer Time	0 ms, From AC Mode to Batter	y Mode, Inverter to Bypass
Cold Start	Standard, The UPS operated wi	ithout AC Mains, on Battery Pc
Crest Factor	3:1	
Jnbalanced Load & Acceptable Load PF	Compatible Operation on 100% 0.9 leading to 0.9 lagging	
Overload Operation	30 seconds @ 105% ~ 150% Rated Load; 300 miliseconds @ ≥ 150% Rated Load	3 minutes @ 105% ~ 125% Rated Load 30 seconds @ 125% ~150% Rated Load 100 miliseconds @ ≥ 150% Rated Load
	Switches to Bypass Line	over 150% Rated Load
Static Bypass		
Rated Voltage & Range	208/220/230/240 VAC 1P+N+F Output Voltage ±32 VAC	160 VAC~ OV ±32 VAC
Rated Frequency & Range	50/60 Hz, 47 ~ 53 Hz/ 57 ~ 63	Hz [Adjustable]
Communication & Supervis	sion	
Remote Monitoring	Standard (Available As Hardware Comm. Port, SNMP Slot, USB slo Button, Monitoring & Manageme Optional (As Hardware, Standard	nt, EPO (Emergency Power OFF ent Software. <i>in Software):</i> Network Manage
	Dry Contacts [The Following Dat UPS Audible Alarm, GND, Remoi Low Battery, UPS On, Utility Failu & Management Panel, TCP/IP cc Communication Ports Multiplier.	te Shutdown, Bypass Active, ire], Remote Monitoring onverter, GSM/GPRS Modem,
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&Management Environment Operating Temperature Range Prespecified Operating T. Storage Temperature Altitute/ Relative Humidity	Dry Contacts [The Following Dat UPS Audible Alarm, GND, Remoi Low Battery, UPS On, Utility Failu & Management Panel, TCP/IP cc Communication Ports Multiplier. 0°C - 40°C/20°C - 25°C / -30° < 2000m above sea level/ < 95	a Can Be Seen: UPS Failure, te Shutdown, Bypass Active, irre], Remote Monitoring nnverter, GSM/GPRS Modem, °C ~ 60°C % (non-condensing)
&Management Environment Operating Temperature Range Prespecified Operating T. Storage Temperature	Dry Contacts [The Following Dat UPS Audible Alarm, GND, Remoi Low Battery, UPS On, Utility Failu & Management Panel, TCP/IP cc Communication Ports Multiplier. 0°C - 40°C/20°C - 25°C / -30° < 2000m above sea level/ < 95	a Can Be Seen: UPS Failure, te Shutdown, Bypass Active, irre], Remote Monitoring nnverter, GSM/GPRS Modem, °C ~ 60°C
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&Management	Dry Contacts [The Following Dat UPS Audible Alarm, GND, Remoi Low Battery, UPS On, Utility Failu & Management Panel, TCP/IP cc Communication Ports Multiplier. 0°C - 40°C/20°C - 25°C / -30° < 2000m above sea level/ < 95 < 50 dBA < 5 EN 62040-1 MC] EN 62040-2 EN 62040-3 EN 62040-3 EN 60950-1 Information Te CE, ISO 9001:2015, ISO 1400 sories Optional for Input & Output Optional Available from IP21 ~ IP 66 Paralelling KI, Network Manag External Bypass, Remote Monit UPS Looking Battery Enclosure	a Can Be Seen: UPS Failure, te Shutdown, Bypass Active, irre], Remote Monitoring noverter, GSM/GPRS Modem, °C ~ 60°C % (non-condensing) 55 dBA echnology Equipment 01:2015 echnology Equipment 01:2015
&Management	Dry Contacts [The Following Dat UPS Audible Alarm, GND, Remoi Low Battery, UPS On, Utility Failu & Management Panel, TCP/IP cc Communication Ports Multiplier. 0°C - 40°C/20°C - 25°C / -30° < 2000m above sea level/ < 95 < 50 dBA < 5 EN 62040-1 MC] EN 62040-2 EN 62040-3 EN 60950-1 Information Te CE, ISO 9001:2015, ISO 1400 sories Optional for Input & Output Optional Available from IP21 ~ IP 66 Paralelling Kip, Network Manag External Bypass, Remote Monit UPS Looking Battery Enclosure 145*360*225 1 kVA 190*400*330 2-3kVA 9.2 for 1 kVA	a Can Be Seen: UPS Failure, te Shutdown, Bypass Active, ire], Remote Monitoring onverter, GSM/GPRS Modem, °C ~ 60°C % (non-condensing) 55 dBA echnology Equipment 11:2015 echnology Equipment 11:2015 gement Kit(Internal/ External), toring & Management Panel, setc 230*502*553 6-10 kVA ask for 15-20 kVA 54.5 for 6 kVA

For More Information on The UPS PHOENIX *SU*, Please Visit www.tsinepower.com