

# PS75 Series

Modular Online UPS  
75~1200kVA~7200kVA

## Applications:

For all kind of ADP Machines



The PS75 series modular, true online double conversion transformer-less design with 3-Level IGBT Inverter topology UPS ranging from 75kVA to 1200kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The PS75 series feature the latest technology of DSP Microprocessor based control, using IGBT devices, high switching frequency PWM and PFC input control & Input Phase Sequence Correction, which guarantees ultra high efficiency of 97.1% and reliability. Its compact design ensures power density of 1200kVA in one cabinet, 6 units can be paralleled for capacity expansion or redundancy up to 7200kVA, making it an excellent choice for medium and large data centre.

## Features:

- **Compact Design**  
600kVA in one cabinet, footprint of 1.2m<sup>2</sup>, saving valuable space
- **High Power Density**  
75kVA Hot Swappable power module, easy for capacity expansion with full capacity, Modular & Scalable UPS with hot swappable STS Module, controller & Aux Power Board
- **Ultra Efficiency**  
Advanced 3-level technology guarantees high efficiency operating in double conversion mode 97.1%
- **Intelligent Battery Management**  
The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- **IGBT based Rectifier and Inverter**
- **High Scalability**  
The system can be configured from 75kVA to 1200kVA in one single cabinet, 6 units in parallel for a capacity extension up to 7200kVA
- **Friendly HMI**  
10 Inch Graphic display panel for monitoring
- **Multi Communication Interface**  
Provide RS232, RS485, USB, SNMP and programmable dry contacts
- **Lithium battery compatible**
- **Unbalanced & Regenerative Load Handling Capability**  
Capable to operate at 100% unbalanced load & regenerative load conditions



10 Inch HMI Display



75kW UPS Module



**SPECIFICATION OF RACK**

MODEL		PS75R6MU42	PS75R8MU42	PS75R12MU42	PS75R16MU42
Rating (kVA) Configurable		450	600	900	1200
Dimension WxDxH (mm)		900 x 1000 x 2000 (S) 1200 x 1000 x 2000 (F)	1200 x 1000 x 2000	1800 x 1000 x 2000	2000 x 1000 x 2000
Weight (Kg)		344	387	618	700
Bypass	Feature	Hot-Swappable Inbuilt Static Bypass Module & Inbuilt Maintenance Bypass Switch			
	Frequency	50 / 60 Hz ± 10%			
	Voltage	± 20%			
	Overload	135% Overload Continuous ; > 1000% Overload for 100 ms			
Monitoring		Touch Screen Display			
Nos. of Module		75kVA x 06	75kVA x 08	75kVA x 12	75kVA x 16
Switches & Connections		Connections - Rectifier Input / Output / Bypass Input / Battery & Switches - Input, Bypass, Output & Maintenance Bypass			

**SPECIFICATION OF MODULE**

MODULE	PS75M3375
Dimension WxDxH (mm)	442 x 628 x 172, <b>4U</b>
Weight (Kg) Each 75kVA	45 Kg
<b>INPUT</b>	
Nominal Voltage	380V / 400V / 415V AC (3Ph+N+PE)
Operating Voltage Range	132V ~ 276V AC (Phase to Neutral) for 100% Load & 132V ~ 176V AC (Phase to Neutral) for 100% Load
Operating Frequency Range	50/60Hz ± 10%
Power Factor	≥ 0.99
Harmonic Distortion (THDi)	≤ 3%
Generator Input / Walking	Support
<b>OUTPUT</b>	
Output Voltage	380V / 400V / 415V AC (3Ph+N+PE)
Voltage Regulation	± 1%
Power Factor	1.0 (Unity)
Frequency	Auto Sensing 50 / 60 Hz ± 3Hz Sync Mode (Configurable), 50/60 Hz ± 0.1 Hz (Free Running / Self Clocked Mode)
Crest Factor	3:1
Harmonic Distortion (THDv)	≤ 1%
Over Load	≤110% for 60 min, ≤125 % for 10 min, ≤ 150% for 1 min, > 150% for 200 ms
Slew Rate	1 Hz/s
Phase Displacement Angle	120° ± 1° (At 100% Balanced Load) & 120° ± 2° (At 100% Balanced Load)
Transient Response & Response time	0% to 90 % step load = +/- 5%, < 10 ms (Asynchronized Mode)
Efficiency	97.1% Dual Conversion Mode, 98.4% EHS Mode, 99.0% ECO Mode
<b>BATTERY</b>	
Battery Voltage	± 240V DC Nominal (32 ~ 44 Nos. Configurable)
Charging Current	15A
<b>SYSTEM FEATURE</b>	
Self-Diagnostics	During Power ON and Software Control
EPO	UPS Shut down
Transfer Time	Zero
Alarm / Protections	Short Circuit, Input Under/Over Voltage, Over Temperature, Over Load, DC BUS Under / Over Voltage and Battery low
Event Logging & Statistical Data	16,384 events on LCD: Over temp, DC Bus Fail, Fan Fail, Fuse Fail, Overload, Short- circuit, Device Fail, Inverter Fail, Rectifier Fail, Bypass Fail, etc
Display	Touch Screen LCD & LED Indication
<b>ENVIRONMENTAL</b>	
Temperature	Operating: 0~50°C*, Storage: -25°C ~ 70°C
Humidity / Altitude	0~95% RH Non-condensing / <1500 M (above sea level) without derating, Derating 1% for each additional 100m.
Noise	<65dBA
<b>STANDARDS</b>	
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 50001, RoHS
Safety	IEC/EN62040-1
EMC / Performance	Complying to CE, IEC/EN62040-2; IEC/EN62040-3
<b>COMMUNICATION INTERFACE</b>	
Standard	Rack: RS232, RS485, Dry Contact
Optional	BMS / RS485/ USB / SNMP / ModBus / Dry Contact
Monitoring Software	NetAgent Utility v5.8 / Muser 4000 / Power Manager

\* Conditions apply.

Specifications are subject to change without prior notice.

(S): Standard cabinet & (F) Full size cabinet with all 4 Breakers

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