

**Three Phase Double Conversion Online**

**DSP 3000 SERIES**

The DSP3000 offers true online double conversion topology with input power factor correction as standard.

The DSP3000 uses the latest available technology to produce quality UPS power and also keeping in line with worldwide trends in power conversion technology.

The DSP3000 offers a popular range for different power requirements and the following power ranges are available: 30, 40, 60, 80, 100 & 120 KVA (400V 50Hz) systems.

All these UPS systems have the same dimensions :

[660 mm (W) x 750 mm(D) x 1800 mm(H)]

The DSP3000 is designed to operate with an external battery cabinet. A single cabinet or multiple cabinets can be used to accommodate different runtimes.

Typical Applications for the DSP3000:

- Server Rooms and Data Centres
- Networks
- Industrial and Process Automation plant rooms
- Telecommunication
- Medical
- Emergency Lighting

Local design and manufacture equates to:

- Prompt response to customer needs.
- Custom engineering to meet clients specific requirements.
- Readily accessible and reasonably priced spares.
- Reliable communication path between customer and manufacturer.

FULL STATIC AND MANUAL BYPASS SO THAT POWER IS AVAILABLE 24/7



*TRUE ON LINE DOUBLE CONVERSION DESIGN FOR MAXIMUM PROTECTION AGAINST POWER LINE DISTURBANCES AND OUTAGES*

*STATIC POWER FACTOR CORRECTION*

*EXTENDED BATTERY RUN TIMES AVAILABLE*

*DSP CONTROLLED FOR MAXIMUM RELIABILITY AND PERFORMANCE*

*ADVANCED COMMUNICATIONS AND SNMP CAPABILITIES*

## TECHNICAL SPECIFICATIONS

MODEL	UOM	DSP3030	DSP3040	DSP3060	DSP3080	DSP30100	DSP30120
	Inverter Type	High Frequency IGBT DSP Controlled					
Output	VA rating @ 0.8pf	30Kva	40Kva	60Kva	80Kva	100Kva	120Kva
	Kilo watt rating	24kW	32kW	48kW	64kW	80Kva	96Kva
	Output current at VA load	43A $\phi$	58A $\phi$	87A $\phi$	116A $\phi$	145A $\phi$	174A $\phi$
	Voltage	380/400/415 Vac (400V Standard) 3PH 4W + Neutral					
	Voltage regulation	+/- 1%					
	Voltage THD	<2% for linear loads, <5% for 3:1 Crest factor loads					
	Frequency	50Hz					
	Frequency regulation	50Hz +/- 0.02					
	Frequency window	48Hz-52Hz synch to mains					
	Dynamic regulation	+/- 5% (100% load step) recovery to 2% within 5ms					
	Voltage displacement	120 deg +/- DEG					
	Overload capacity KVA	105%FL Continuous / 110%FL 10min / 125%FL 1min / 150%FL 25 sec					
	Overload capacity KW	105%FL Continuous / 110%FL Continuous / 125%FL 10Min / 150%FL 60sec				110% continuous/ 150% 1min / 180% 25sec	
	Efficiency AC-AC	90% @ full load and rated voltage					
	Efficiency inverter	92% @ full load					
Output transformer	Optional in a separate cabinet						
Output protection	Electronic and Fuse						
Input	Rectifier type	High frequency IGBT DSP controlled Power Factor corrected					
	Voltage to rectifier	380 / 400 / 415 VAC (400V Standard) 3 Phase 4 Wire + Neutral					
	Voltage to bypass	380 / 400 / 415 VAC (400V Standard) 3 Phase 4 Wire + Neutral					
	Voltage range to rectifier	350 to 477 VAC				305 to 477 VAC	
	Frequency	50Hz					
	Frequency range for Rectifier	40 to 65Hz					
	Current THD at nominal voltage	<4% at full load standard					
	Power factor at nominal voltage	>0.98 standard					
DC Link and battery	Type	VRLA (Valve regulated Lead Acid ) or Wet					
	Nominal battery Bus	480 (Float 540V)					
	AC ripple current in float mode	<5% of C/10 A/hr rating or better					
	DC ripple voltage in float mode	<1%					
	Temperature Compensated Float	Optional with customer interface board and external sensor					
	End of discharge	Preset					
Static Bypass Switch	Type	Thyristor bridge					
	Rated current	1.5In					
	Maintenance bypass	Standard					
	Overload capacity	200% 1min 1000% 10ms					
Environmental	Temperature	0-40 deg Celsius, 15 to 25 degrees recommender, 0 to 35 deg continuous					
	Humidity	0 – 90% non condensing					
	Max altitude without de rating	0 – 2000 meters					
Dimensions	UPS ( w x h x d )	660 x 1800 x 750mm (80Kva = 1060 width)				1060 x 1800 x 750	
	Weight	218kg	314kg	374kg	425kg	425kg	535kg
Noise Level	dBA	<65					
Standards		IEC 62040-3, IEC 60146-1-1, IEC 61000-4-2, EN 50091					
Degree of Protection		IP21					
Warranty		12 Months					

We reserve the right to improve specifications without prior notice