

# WELLSAN

energy is mandatory



DATA CENTER



MEDICAL



TRANSPORT



INDUSTRY



EMERGENCY



UPS ONLINE



TOWER



POWER FACTOR



SERVICE

## well-DS series

### 10-200KVA

3:3  
PHASE

#### ONLINE UPS



#### HIGHLIGHTS

- IGBT PWM Rectifier & Inverter Technology
- Low Input Current THD (<3%)
- High Input Power Factor (>0.99)

#### DSP Power Factor Corrected IGBT Rectifier

- Equipped with its new IGBT rectifier **well-DS** Series keeps your critical loads protected while its space-saving compact design and front access for maintenance successfully reduce mean time to repair (MTTR).
- Thanks to the wide variety of accessories and options **DS** Series presents maximum flexibility advantage to users and optimizes total cost of ownership.



[www.wellsan-ups.com.tr](http://www.wellsan-ups.com.tr)

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## Technical Specifications

Capacity	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	180KVA	200KVA
input										
Nominal Voltage	380/400/415Vac, 3Ph+N+PE									
Operating Voltage Range	110-300Vac for 50%load, 175-276Vac for full load									
Operating Frequency Range	40-70Hz									
Power Factor	≥ 0.99 @ 100% Load									
THDi	<4% ( 100% linear load )					<3% ( 100% linear load )				
Generator input	Support									
output										
Output voltage	380/400/415Vac, 3Ph+N+PE									
Voltage regulation.	≤ ±1% Typical (balanced load, ≤ ± 2% Typical (unbalanced load)									
Power Factor	1									
Output frequency	Line Mode: synchronize with input, when input frequency > ± 10% (± 1-5% optinal), output (50/60 ± 0.1) Hz Battery Mode: (50/60 ±0.1) Hz									
Crest factor	3 : 1									
THDv	≤ 2% THD (Linear Load) ≤ 4% THD (Non-linear Load)									
Bypass										
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)									
Voltage Range	- 30% ~ +20%									
Frequency Range	46Hz ~ 54Hz or 56Hz ~ 64Hz									
Overload Capability	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms									
Efficiency										
AC Mode	95%					95.50%				
ECO Mode	98%					98.50%				
Battery Mode	94%					94.50%				
Battery										
Battery voltage	+/- 120V	+/- 192V				+/- 192V : +/- 240V (selectable)				
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Selectable)									
Boost Charging Voltage	2.35V/Cell									
Temperature Compensation	Yes									
Charge Current (A) Adjustable	12A	12A	12A	12A	18A	24A	24A	36A	54A	54A
Protection										
Transfer time	Utility to Battery: 0ms, Utility to bypass: 0ms									
Over load	≤ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms									
Backfeed protection	Support									
Alarm	over load, utility abnormalm UPS fault, battery low, high and low Voltage									
Protection	short crcuitm overload, over temperature, battery lowm fan fault. Alarm									
Remot LCD	Support									
Communication	USB, RS485, Parralel port, Coupler dry. Contact, Intelligent slot, SNMP, card (option), relay. Card (option)									
Enviroment										
Operating Temperature	0-40 C									
Storage temperature	25-55 C ( No battery )									
Humidity	0-95% (non condensing)									
Altitude	< 1000m. When>1000m									
DIM.										
Dimension D x W x H (Cm)	63X25X83		82X30X100		100x32x80	100x43x120	100x43x120	100x43x120	100x60x120	100x60x120
Net weight (Kg)	37	43	55	58	88	169	169	169	249	249
Standard										
Safety	IEC/EN 62040-1									
EMC	IEC/EN 62040-2 Category C3									

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