ELON Pro Series
10-80 kVA

BARWELO



ELON Pro Series: High-density on-line UPS for critical power applications

BARWELO ELON Pro Series 10-80 kVA is a three-phase on-line double-conversion UPS range designed for critical IT, industrial, telecommunications and infrastructure applications.
Electrical performance: Three-level topology and DSP control provide output power factor 1, low input harmonic distortion and high operating efficiency.
Battery flexibility:
Flexible battery configurations are available to meet different backup-time and project requirements.
Operational value: The range supports generator compatibility, Batt-Watch battery care and scalable installation options for demanding environments.

Applications: Maximum quality in protection

Edge computing, data centres, servers, industrial processes, telecommunications, infrastructure and other sensitive three-phase loads.



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PF = 1 OUTPUT PF	**>96%** ONLINE EFFICIENCY	**98.7%** SMART ECO
<3% THDi 30-80 kVA	**5"** TOUCH SCREEN	**GENSET** COMPATIBLE
BATT BATT-WATCH	**USB** RS232 / 485	**PAR** PARALLEL

PERFORMANCES

- On-line double conversion technology with three-level topology.
- State-of-the-art quad-core DSP control
- Output power factor 1 (kVA = kW).
- Input power factor: ≥0.99 for 10-20 kVA / 1 from 10% load for 30-80 kVA.
- THDi: <4% for 10-20 kVA / <3% for 30-80 kVA.
- On-line efficiency >96%.
- Smart Eco-mode efficiency: 98% for 10-20 kVA / 98.7% for 30-80 kVA.
- Single/single and three/single configurations available up to 20 kVA, on request.
- Compatible with Pb-Ca, VRLA, lead acid, gel, Ni-Cd and Li-Ion batteries.
- Compatible with power generators.
- 5" colour touch screen.
- Ports: 1 x RS232 + 1 x USB for 10-20 kVA / 1 x RS232/485 + 1 x USB for 30-80 kVA.
- Relay interface: 6 relays for 10-20 kVA / 4 programmable relays for 30-80 kVA.
- Parallel operation for redundancy or capacity.

CONTINUOUS MONITORING

Communication interfaces and optional intelligent slots support monitoring and management solutions.

BATTERY OPTIONS

Flexible battery configurations are available to meet different backup-time and project requirements.

LOW TCO

High efficiency and compact cabinet design help reduce installation impact and operating cost.

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RANGE & DIMENSIONS

ELON Pro Series 10-80 kVA

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RANGE

Model	Power (VA / W)	Dimensions (D x W x H mm)	Weight (kg)	Battery configuration
EL PRO-10K	10000 / 10000	689 x 250 x 827	98	20 x 9Ah - Internal
EL PRO-15K	15000 / 15000	689 x 250 x 827	118	32 x 7Ah - Internal
EL PRO-20K	20000 / 20000	689 x 250 x 827	132	32 x 9Ah - Internal
EL PRO-30K	30000 / 30000	910 x 380 x 1045	229	44 x 9Ah - Internal
EL PRO-40K	40000 / 40000	910 x 380 x 1045	334	2x36x 9Ah - Internal
EL PRO-60K	60000 / 60000	920 x 560 x 1655	450	3x36x 9Ah - Internal
EL PRO-80K	80000 / 80000	920 x 560 x 1655	540	External cabinet

DIMENSIONS

- EL PRO-10K / 15K / 20K: 250 mm (W) × 689 mm (D) × 827 mm (H).
- EL PRO-30K / 40K: 380 mm (W) × 910 mm (D) × 1045 mm (H).
- EL PRO-60K / 80K: 560 mm (W) × 920 mm (D) × 1655 mm (H).



TECHNICAL SPECIFICATIONS

ELON Pro Series 10-80 kVA

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MODEL	10K	15K	20K	30K	40K	60K	80K
TECHNOLOGY	On-line, double conversion, HF, DSP control						
INPUT							
Rated voltage	3x380/400/415 V (3Ph+N)						
Voltage range	110-300 V (F-N)					115-265 V (F-N)	
Rated frequency	50/60 Hz						
Frequency range	40-70 Hz				45-65 Hz		
THDi	<4%					<3%	
Power factor	>=0.99				1 from 10%		
Rectifier topology	Three-phase IGBT full wave, soft start, PFC, transformerless						
OUTPUT							
Power factor	1						
Rated voltage	3x380/400/415 V (3Ph+N)						
Dynamic accuracy	+/-10%						
Static accuracy	+/-1%				+/-0.5%		
Synchronised frequency	50/60 Hz +/-5 Hz (Selectable)						
Free running frequency	50/60 Hz +/-0.5%						
Frequency	50/60 Hz						
On-line efficiency	>96%						
Smart Eco-mode	98%				98.7%		
Admissible overloads	10 - 20 kVA: 110% 60 min / 110~125% 10 min / 125~150% 60 s / >150% 1 s immediate				30 - 80 kVA: 125% 10 min / 125~135% 5 min / 135~150% 60 s / >150%		
Crest factor	3:1						
BYPASS							
Manual bypass	Uninterrupted						
Static bypass	Solid state						
Smart Eco transfer	<10 ms						
Transfer to bypass	Immediate >150%						
Retransfer	Automatic, after alarm deactivation						
BATTERY							
Battery type	Pb-Ca, VRLA, lead acid, gel, Ni-Cd, Li-Ion						
Battery configuration	20x9Ah	32x7Ah	32x9Ah	44x9Ah	2x36x9Ah	3x36x9Ah	External cabinet 2x44x9Ah
Charging regulation	Batt-Watch						
COMMUNICATION							
Ports	RS232+USB				RS232/485+USB		
Relay interface	6 relays				4 prog.		
Intelligent slot	NIMBUS, SNMP, RS232, RS485, USB, AS400 or remote battery temperature						
Display	5" colour Touch Screen						
GENERAL							
Operating temperature	0C to +40C						
Relative humidity	Up to 95% ,Non-condensing						
Max. operating altitude	2,400 masl						
Acoustic noise at (1M)	<59 dB	<59 dB	<59 dB	<54 dB	<54 dB	<61.5 dB	<61.5 dB
STANDARDS							
Safety	IEC/EN 62040-1						
EMC	IEC/EN 62040-2 C3						
Operation	VFI-SS-11						
Corporate certification	ISO 9001 / ISO 14001 / ISO 45001						

Notes: 1/1 and 3/1 options are available up to 20 kVA on request with power derating.

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