

TECHNICAL SPECIFICATIONS

MODEL	ELS-3380	ELS-33100	ELS-33120	ELS-33200
Capacity (kVA/kW)	80kVA / 80kW	100kVA / 100kW	120kVA / 120kW	200kVA / 200kW
INPUT				
Voltage	380 / 400 / 415 VAC			
Voltage Range	304 ~ 478 VAC (100% Load) / 228 ~ 304 VAC (Derates linearly with load)			
Frequency	50 / 60 Hz (Auto-Sensing)			
Frequency Range	40-70 Hz \pm 0.5%			
Input Power Factor	\geq 0.99			
Total Harmonic Distortion (THDi)	\leq 5%			
Bypass Voltage Range	Factory Setting: -20% ~ +15% VAC; Upper Limit: +10, +15, +20, +25; Lower Limit: -10, -15, -20, -25, -30, -40 (Selectable via LCD)			
Bypass Frequency Range	\pm 1 Hz, \pm 3 Hz, \pm 5 Hz (Selectable via LCD)			
Bypass Overload Range	125% Load: Long term; 125-130% Load: 10 min; 130-150% Load: 1 min; 150-400% Load: 1 sec; \geq 400% Load: 200 ms			
OUTPUT				
Voltage	380 / 400 / 415 VAC (Selectable via LCD)			
Voltage Regulation	\pm 1% (Linear Load)			
Frequency	Synchronized with the grid; 50 / 60 Hz \pm 0.1 Hz in Battery Mode			
Waveform / Output Power Factor	Pure Sine Wave / 1			
Crest Factor	3:1			
Total Harmonic Distortion (THDv)	Linear Load \leq 1%; Non-Linear Load \leq 3%			
Transfer Time	0 ms			
Inverter Overload Capacity	110% Load 60 min; 110-125% Load 10 min; 125-150% Load 1 min; $>$ 150% Load 200 ms			
BATTERY				
Battery Voltage	Standard Models: 240 VDC / 32-40 units (Adjustable)			
Battery Charge Current	30A	40A	40A	60A
Charging Voltage Accuracy	\leq 1%			
SYSTEM				
Efficiency	96%			
Display	5" or 7" Touchscreen (Optional)			
Parallel Operation	Up to 6 units (Optional)			
ENVIRONMENT / COMMUNICATION / STANDARDS				
Operating Temperature / Humidity	0 °C ~ 40 °C / 0% ~ 95% (Non-condensing)			
Storage Temperature	-40 °C ~ 70 °C			
Audible Noise	\leq 70 dB (at 1 meter)			
Operating Altitude	\leq 1000 m; 1000-2000 m: 1% power derating per 100 m			
Communication	Standard: RS 232, RS 485, USB; Optional: Dry Contact, SNMP, Parallel Kit			
DIMENSIONS				
Net Dimensions (WxDxH)	360 x 800 x 1200	360 x 850 x 1200	360 x 850 x 1200	440 x 850 x 1250
Packed Dimensions (WxDxH)	450 x 870 x 1370	450 x 940 x 1350	450 x 940 x 1350	530 x 940 x 1410
Net Weight (kg)	152	156	160	194 / 200
Packed Weight (kg)	172	180	180	214 / 220



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