

UPS

E2 Series

20-200 kVA

Three phase



- ▶ **3L Rectifier & Inverter technology**
- ▶ **High short circuit withstand capacity**
- ▶ **Regenerative operation** (Mains ↔ Load)
- ▶ **Regenerative loading** (Easy Loading Test)
- ▶ **Low input current THDi ($\leq 4\%$)**
- ▶ **Low output voltage THDv ($\leq 2\%$)**
- ▶ **High input pf 0,99 between 0%-100% load**

- ▶ High output power factor 0,9 (1 optional)
- ▶ High input and output performance
- ▶ Cold start
- ▶ Short circuit protection
- ▶ Long battery life with smart battery charge leading
- ▶ Automatic and manual battery test adjustable as period and time
- ▶ Optimum generator compatibility
- ▶ Touch screen TFT LCD user interface
- ▶ Remote monitoring and management software



E2 Series UPS

TECHNICAL SPECIFICATIONS

POWER	Sn (kVA)	20	30	40	60	80	100	120	160	200
	Pn (kW)	18	27	36	54	72	90	108	144	180
INPUT	Voltage	380 / 400 / 415 Vac 3- ph + N								
	Voltage Tolerances	-%15, +%20 (without downgrading), -%36 (depending on load percentage)								
	Frequency	50 / 60 Hz								
	Frequency Tolerances	± %10								
	Power Factor	≥ 0,99								
	THDi	<%4								
BYPASS	Dual Input	Optional								
	Voltage	380 / 400 / 415 Vac 3-ph + N								
	Voltage tolerances	Adjustable up to -25%, +20%								
	Frequency	50/60 Hz								
	Frequency tolerances	adjustable up to ± 10%								
	Maintenance bypass	Standard								
OUTPUT	Voltage	380 / 400 / 415 Vac 3-ph + N								
	Voltage tolerances	± %1 (static load), ± %5 (dynamic load)								
	Frequency	50/60 Hz (selectable)								
	Frequency tolerances	± % 0,1 (self-synchronize), ± %1 (mains-synchronize, adjustable up to ± 5%)								
	Power Factor	0,9 [1 optional]								
	THDv	< 2% (linear load), < 5% (non-linear load)								
	Crest Factor	3:1								
OVERLOAD CAPACITY	≤ %110	60 min.								
	≤ %125	10 min.								
	≤ %150	1 min.								
EFFICIENCY	Online	%100 Load	up to 96%							
		%50 Load	95%							
	Eco-mod	up to 98%								
GENERAL	Technology	Three level IGBT rectifier & inverter								
	Control	DSP, SPWM								
	Classification in accordance with EN 62040-3	VFI - SS - 111(Voltage Frequency Independent)								
	Paralleling Units	Up to 6								
	Communication	SNMP(Optional), RS232, RS485, MODBUS								
	Remote Monitoring	Remote panel(Optional)								
	Programmable Dry Contacts	3 (standard)								
	Programmable Custom Inputs	4								
	Charge With Temperature Compensation	Optional								
	Cold Start	Standard								
Touch Screen TFT LCD User Interface	Standard									
ENVIRONMENT	Operating temperature	from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life)								
	Relative humidity	0% - 95% (without condensation)								
	Maximum altitude	≤ 2000 m								
	Noise Level (dB (A))	<60	<65	<70						
UPS CABINET	Dimensions	W (mm)	480	630	735					
		D (mm)	995	860	1040					
		H (mm)	1235	1430	1840					
	Degree of Protection	IP20								
	Colour	RAL9005								
BATTERY	Battery Quantity	40 ± 4 (adjustable)								
	Type	VRLA AGM								
	Internal Battery Quantity (max.)	40	-							
	Internal Battery Capacity (Ah)	7-9	-							
STANDARDS	Safety	EN 62040-1								
	EMC	EN 62040-2								
UPS LIFETIME	10 Years									

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