

UPS

D1 Series

160-800 kVA

Three phase



- ▶ **2L 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 0,8 (optional 0,9)
- ▶ High input and output performance
- ▶ Dual input (optional)
- ▶ Short circuit protection
- ▶ Parallel operation
- ▶ Automatic and manual battery test adjustable as period and time
- ▶ Optimum generator compatibility
- ▶ Touch screen TFT LCD user interface
- ▶ Remote monitoring and management software



D1 Series UPS

TECHNICAL SPECIFICATIONS

POWER	Sn (kVA)	160	200	250	300	400	500	600	800	
	Pn (kW)	128	160	200	240	320	400	480	640	
INPUT	Voltage	380 / 400 / 415 Vac 3-ph + N								
	Voltage Tolerances	± 15% (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	± %10 (adjustable)								
	Frequency	50/60 Hz								
	Frequency Tolerances	± %4 [adjustable up to ± 10%]								
	Maintenance Bypass	Standard								
OUTPUT	Voltage	380 / 400 / 415 Vac 3-ph + N								
	Voltage Tolerances	± 1% (static load), ± 5% (dynamic load in accordance with VFI-SS-11)								
	Frequency	50/60 Hz (selectable)								
	Frequency Tolerances	± 0.1% (self-synchronize), ± 1% (mains-synchronize, adjustable up to ± 5%)								
	Power Factor	0,8 (optional 0,9)								
	THDv	< 2% (linear load), < 5% (non-linear load)								
	Crest Factor	3:1								
OVERLOAD CAPACITY	≤ %110	up to 60 min.								
	≤ %125	up to 10 min.								
	≤ %150	up to 1 min.								
EFFICIENCY	Online	up to 92%								
	Eco-mod	up to 98%								
GENERAL	Technology	True online-double conversion, IGBT rectifier								
	Control	DSP, SPWM								
	Paralleling units	up to 6								
	Communication	SNMP, USB, RS232, RS485, MODBUS								
	Remote monitoring	Remote panel (Optional)								
	Dry contacts	Programmable 3 dry contacts								
	Custom inputs	Generator, Battery temperature sensor, Remote EPO								
	Touchscreen TFT LCD Display	Optional								
ENVIRONMENT	Operating Temperature	from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life)								
	Relative Humidity	0% - 85% (without condensation)								
	Maximum Altitude	≤2000 m								
	Noise level dB(A)	<65 dB (A)		< 70 dB (A)			< 75 dB (A)			
UPS CABINET	Dimensions	W (mm)	630	705	2185	3430				
		D (mm)	1110	1260	810	810				
		H (mm)	1450	1600	2030	1925				
	Weight	525	590	850	870	1380	1600	1800	2200	
	Degree of Protection	IP20								
Colour	RAL9005									
BATTERY	Battery Quantity	60 / 64								
	Type	VRLA AGM								
STANDARDS	Safety	EN 62040-1								
	EMC	EN 62040-2								
UPS LIFETIME	10 Years									

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