

MODEL	FLEXY-20	FLEXY-40
Maximum system power	20 kVA / 20 kW	40 kVA / 40 kW
Module power	10 kVA / 10 kW	
MAIN INPUT		
Grid system	3 Phases + Neutral + Ground standard (1P+N+G optional)	
Rated voltage / Frequency	380/400/415 VAC (Phase-Phase), 50/60 Hz	
Voltage range	304~478 VAC (Phase-Phase), full load 228V~304VAC (Phase-Phase), load decreases linearly according to the min phase voltage	
Frequency range	40~70Hz (rectifier operating range)	
Power factor	>0.99	
Current THDi	4%	
BYPASS INPUT		
Grid system	3 Phases + Neutral + Ground standard (1P+N+G optional)	
Rated voltage / Frequency	380/400/415VAC (Phase-Phase), 50/60Hz	
Voltage range	Default: -20% ~ +15% Selectable: -40% ~ +25%	
Frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz	
Bypass overload	125%, long term operation 125%<load<130%, 10 minutes 130%<load<150%, 1 minute load>150%, 300 milliseconds	
OUTPUT		
Rated voltage / Frequency	380/400/415VAC (Phase-Phase), 50/60Hz	
Power factor	1	
Voltage THDv	<1% (from 0% to 100% linear load); <5.5% (full non-linear load according to IEC/EN62040-3)	
Voltage precision	±1% (0-100% linear load)	
Transient response	<5% for step load (20-80%; 100-20%)	
Transient recovery	<30ms for step load (0-100%; 100-0%)	
Inverter overload	110%, 60 minutes 125%, 10 minutes 150%, 1 minute >150%, 200 milliseconds	
Frequency regulation	50/60Hz±0.1%	
Synchronized range	Selectable, ±1Hz ~ ±5Hz, default ±2Hz	
Synchronized slew rate	Selectable, 0.1Hz/S ~ 5Hz/S, default 0.5Hz/S	
Crest factor	3:1	
BATTERIES		
Battery rate voltage	±240 VDC (selectable)	
Number of batteries*	Standard: 40 (20+20) batteries 12V Selectable: 32-44, without derating	
Charger voltage precision	1%	
Batteries arrangement	Internal and/or external**	
Battery type	Pb / Ni-Cd	
SYSTEM		
Efficiency	Normal operation: 95% Eco Mode operation: 98.4% Battery operation: 94.5%	
Display	LED + LCD + Touch screen	
Protection degree	IP20***	
Interface	Standard equipment: RS232, RS485, dry contacts Optional: SNMP, dust filter	
ENVIRONMENT		
Operating temperature	0 ~ 40°C	
Storage temperature	-20 ~ 70°C	
Relative humidity	0 ~ 95% (no condensing)	
Noise (dBA at 1 meter far)	56dB maximum (power module)	
Altitude	<1000m; load derated 1% per 100m, from 1000 ~ 2000m	
MECHANICAL DATA		
Power module dimensions W*D*H (mm)	590*436*85	
Power module weight (Kg)	15	
Cabinet dimensions W*D*H (mm)	600*1000*2100	
Cabinet weight (Kg)	180	
Color	Cabinet: RAL 9005 (dark grey) - Door: RAL 9006 (light grey)	

Note: technical specifications and data could be changed without notification

* Our standard battery cabinets are 20+20 batteries

** It's possible to install up to 4 internal battery strings. For the 10-20 kVA version it's possible to install up to 5 internal battery strings, only upon specific request

*** IP30 protection available upon request