

# EX33

High Performance  
Modular 3-phase UPS-System 10 to 60 kVA



- Modular and scalable from 10 to 60kVA
- High Output Power Factor 0.9
- Easy to install - easy to handle - easy to maintain  
easy to expand
- Customized configuration with 3.4, 5.0  
and 6.7 kVA Power Modules
- High Performance on a small foot print: i.e. 15 kVA system with N+1 Redundancy  
- totally modular - with 5 minutes back up time in one single cabinet
- Cost effective N+x redundancy; even phase by phase
- Modular Battery System
- Advanced Battery Management
- Double Input (40, 45 and 60kVA)

The unique EX33 Systems from Innovative Energies combine all relevant aspects to achieve an efficient UPS system with redundant and scalable modular advantages. The modularity of the EX33 System allows a progressive adaption to the current IT environment while considering future load changes.

Each power module – available as 3.4, 5.0 and 6.7kVA modules – is redundant to the other and allows an individual, customized configuration – almost 50 different configurations are possible with only 3 power cabinets.

Their maximum weight of 9kg allows an easy installation and replacement which can be performed by a single person. EX33 are easy to install, easy to handle, easy to maintain and easy to expand at any time for future requirements.

EX33 Mod technologically balances the dynamic changes within the IT equipment as the capabilities of the power supply may change radically. This makes EX33 Mod the first choice for all IT applications.

## EX33 10 to 60 kVA

Technical Specifications							
Model	EX33	EX33	EX33	EX33	EX33	EX33	EX33
Nominal Power (kVA)	10	15	20	30	40	45	60
Architecture of the UPS	Modular, scalable and redundant in one single cabinet				Modular, scalable and redundant		
<b>INPUT</b>							
Nominal Voltage	230V 1-phase / 400V 3-phase +N			400V 3 phase +N			
Frequency	50 Hz / 60 Hz +/- 2% autosensing						
Compatibility with gensets	Configurable for synchr. between the input and output frequencies, even for the highest frequency ranges, +/- 14%						
Power Factor at full load	> 0,99						
THD of input current	≤ 3%						
<b>OUTPUT</b>							
Nominal Power (kVA)	10	15	20	30	40	45	60
Active Power (kW)	9	13,5	18	27	36	40,5	54
Power Factor	0,9						
Nominal Voltage (V)	230V 1-phase / 400V 3-phase +N			400V 3-phase +N			
Voltage variation (static)	+/- 1% (AC-AC / DC-AC)						
Voltage variation (dynamic)	+/- 1% (AC-AC / DC-AC)						
Crest Factor (I <sub>peak</sub> /I <sub>rms</sub> )	3 : 1						
THDv on nominal power	≤ 0,5% linear load / ≤ 1% not linear load						
Frequency	50 Hz / 60 Hz (autosensing or selectable)						
Frequency stability Battery Mode	0,01%						
Overload capability PF 0.9	125% for 5min, 150% for 30sec with no bypass intervention						
<b>BATTERIES</b>							
Type / UPS Battery Voltage	VRLA - AGM / 240VDC (internal redundant range)						
Runtime / Autonomy	Configurable and extendable, both internally and with additional battery cabinets						
Battery Module	Plug & Play						
<b>GENERAL</b>							
Communication	1 x SNMP Slot, 2 x Serial Port RS232, 1x Logic Level Port, 4 x volt-free contacts ports						
Monitoring	Optional (including 1 x RCCMD License with SNMP Interface Card)						
Display and Signalling	4 x 20-character lines, 4 menu navigation buttons, multi-coloured LED status indicator, alarms and audible signalling						
Diagnostic Functions	Advanced Diagnostic Functions via Display and / or Remote						
Emergency Stop (EPO)	Yes						
Operating Temperature/-Humidity	0°C - 40°C / 20% - 80% non condensing						
Noise level @ 1m (dBA)	42 to 46 dBA						
Protection index	IP 21						
Efficiency Smart Mode	up to 99%						
Net Weight w/o Batteries (kg)	155	155	157	181	184	191	196
Dimensions HxWxD (mm)	1650x414x628			1650x414x1x628			
Certifications	EN 62040-1; EN 62040-2; EN 62040-3 (Voltage Frequency Independent) VFI-SS-111						

