

ZGR SCALABLE 60 – 300 KVA

ONLINE MODULAR UPS

ZGR SCALABLE 3:3 range allows to easily increase power and autonomy to meet the changing needs of the end user

ZGR SCALABLE is the most advanced modular UPS, specially designed for data centers and critical loads offering maximum availability.

The MPW grows as the demand for the activity increases, without the need to expand the physical volume of the UPS, optimizing both the initial investment as well as the total costs of ownership.

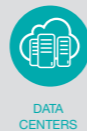
ZGR SCALABLE expanding its feeding capacity is really easy thanks to modules of different powers*.

ZGR SCALABLE fully satisfies the changing demand of the grid environment and enables the end user to easily increase the power within its 3 available cabinet sizes.



ZGR Scalable 60K

Applications



DATA CENTERS

Characteristics

- 10 kVA / 15 kVA / 20 kVA / 25 kVA / 30 kVA modules*
- Centralized control
- Parallel n+x
- 3-level IGBT Technology
- 3-levels smart charging
- Touch Screen
- Power factor up to 1.0
- Efficiency up to 95.5%
- 2U module height
- High MTBF and MTTR
- Emergency Power Off (EPO)
- Configurable battery voltage (360-600 Vdc)
- Grid Backup function (BackFeed)
- Low harmonic distortion THDI

* Optional

TECHNICAL SPECIFICATIONS

Model	ZGR SCALABLE 60k	ZGR SCALABLE 150k	ZGR SCALABLE 300k
Power	10 - 60kVA / 10 - 60kW	10 -150kVA / 10 - 150kW	10 -300kVA / 10 - 300kW
Cabinet	Up to 60k	Up to 150k	Up to 300k
Modules	10k / 15k / 20k / 25k / 30k		
Power factor	1.0		
Format	Cabinet		

INPUT ELECTRICAL CHARACTERISTICS

Voltage range	305 - 485 Vac (allows use with generators) 3 phases + N + PE
Frequency	40 - 70 Hz (auto detecting)
Power factor	0.99
THDi (100 % load)	< 3% non linear

OUTPUT ELECTRICAL CHARACTERISTICS

Nominal voltage	380 / 400 / 415 Vac (3 phases + N + PE) ± 1 %
Frequency (battery mode)	50 / 60 Hz ± 0.1 %
Waveform (battery mode)	Pure sinewave
THD harmonic distortion (100 % load)	< 2% linear / < 4% non linear
Transfer time	0 ms battery / 0 ms bypass
Permissible peak current	3:1
Overcharge (Online)	10 min < 110%, 1 min < 130%, bypass > 150%

EFFICIENCY

Inverter mode	Up to 95.5%
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BATTERY

DC bus voltage	360 - 600 Vdc *
Charger maximum current	18 A (per module)
Autonomy ⁽¹⁾	Depending on battery capacity

MONITORING

Informative	LED + LCD color 7" touch screen
Alarms	Acoustics depending on alarm (optional potential-free contacts)
Software	Windows

CONNECTIONS

Terminal panel	Input / Output / Bypass / Battery		
Protection switch	Input / Output / Bypass / Battery		
Bypass Maintenance switch (MCB)	125 A	200 - 250 A	500 - 600 A
Bypass input	Yes		
Intelligent port	Yes (optional SNMP / RS485 / CAN / dry contact)		

FUNCTIONS

On/OFF with battery (Cold Start)	Yes (allows UPS to run without mains power)
EPO Function (Emergency Power OFF)	Push button / front panel contacts
Paralleable	Yes (up to 4 units with parallel control N + x)
Frequency converter 50-60Hz	Yes
Battery temperature sensor	Yes (Optional)

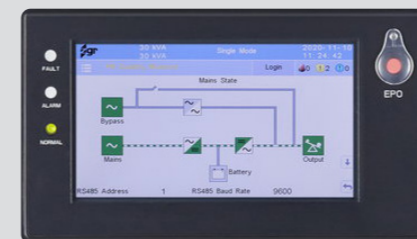
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS

Cooling	Forced with fans (PWM speed control)		
Operation temperature	0°C ~ +40°C		
Relative humidity	0 - 95 % without condensation		
Noise level (at 1 m)	< 58 dB	< 61 dB	< 68 dB
Dimensions Cabinet (WxHxD)	600 x 1200 x 850 mm	600 x 1200 x 850 mm	600 x 2000 x 850 mm
Weight approx. Cabinets	142 kg	153 kg	295 kg
Dimensions Modules (WxHxD)	440 x 86 x 620 mm		
Weight approx. Modules	21 kg		

STANDARDS

Marking	CE
Directives	Low voltage directive: 2014/35/EU, EMC directive: 2014/30/EU
Standards	Safety: EN 62040-1, EMC: EN 62040-2, Accordance: EN 62040-3

⁽¹⁾ Commercial autonomy. The autonomy can vary widely depending on the applied consumption. Contact us for customized autonomies. These specifications may change without notice



IEC 62040 - 3

VFI
TYPE
ONLINE