

GE Digital Energy's EM Series is one of the best performing three-phase modular UPS system providing critical power protection for a wide range of applications.

EM Series modular system is a true redundant UPS for highest availability and reliability, providing fully rated bypass and control unit for each module.

EM Series is one of the most efficient double conversion UPS that provides world class energy efficiency up to 95% at operating load condition and has clean input performance with very low THDi of <4% and high input power factor.

The UPS modules are designed for hot-swappable replacement to reduce the MTTR (Mean Time To Repair) that enhances safe power availability.

The modern and intuitive front panel display with 13+4 LEDs and multilanguage graphical display provide UPS status at a glance.

Modular technology and flexible scalability allowed you to increase the installed safe power according to critical loads requirements, keeping capital investments and operating costs in line with business expectation.

features & benefits

- True redundancy - decentralized control and automatic bypass
- Separate input mains to increase system reliability
- Flexible battery configurations (common, group of modules or single module)
- Flexible UPS modules scalability
- Hot swappable - reduced MTTR (Mean Time to Repair)
- Clean input performance - saving in sizing of upfront equipment as for emergency genset
- High efficiency - system energy cost savings
- Optimize capital investment and control of operating costs

applications

- Data centers
- Security systems
- Manufacturing process
- Banking and Financial institutions
- Telecommunication systems
- Transportation infrastructures

Digital Energy EM Series UPS

10, 20 & 40 kVA three-phase modular
Uninterruptible Power Supply



imagination at work

technical specifications

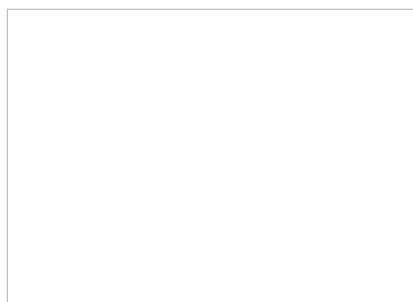
Topology	: VFI-SS-111 – Voltage Frequency Independent according to IEC 62040-3
Technology	: Transformer-less UPS, distributed control logic in each module
Operating Modes	: Double conversion, automatic bypass, frequency converter

Rated output power	EM Series 10	EM Series 20	EM Series 40
Output power rating (kVA)	10	20	40
Output power rating (kW)	8	16	32
Output power factor (lagging)	0.8	0.8	0.8
Input			
Voltage range	3 x 340 - 460 V + N		
Frequency	50/60 Hz ± 5%		
Harmonics current distortion THDi	< 4%		
Power factor	> 0.99		
Output			
Output voltage	3x380/400/415 Vac +N, user selectable		
Voltage regulation			
- static	< ±1%		
- dynamic (100% step load)	< 5%		
Voltage distortion			
- THDu at linear load	< 2%		
- THDu at non-linear load	< 5%		
Regulation time	< 20 ms		
Output frequency	50 / 60 Hz		
Overload capability			
- inverter	150% for 1 min, 125% for 10 min		
- bypass	500% for 100 ms, 150% for 10 min		
Crest factor	3 : 1		
Short-circuit capability	200% for 3 s		
Automatic bypass	✓	✓	✓
Battery			
Battery type	Pb sealed acid valve regulated (VRLA)		
Number of battery cells	2x108+2x144	2x108+2x144	2x120+2x144
General data			
Efficiency	up to 95%		
Audible noise dB(A)	60		
Ambient operating temperature	32 - 104 °F (0 - 40 °C)		
Standards			
Safety standards	IEC 62040-1		
EMC standards	IEC 62040-2 (class C3)		
UPS modules			
Dimensions (w x d x h) mm	483 x 511 x 132,6 (3U)	536 x 541 x 221,4	586 x 736 x 265,8
Weight (kg)	22	40	70
Number of modules	up to 11	up to 12	up to 12
UPS cabinets			
Protection degree	IP20		
Colour	RAL 7035		
Service bypass	✓	✓	✓
Dimensions (b x t x h) mm			
600 x 800 x 1800 ¹³	3 Module ¹³ with battery integrated up to 8 Modules ¹³	2 Module ¹³ with battery integrated up to 5 Modules ¹³	-
600 x 800 x 2000 ¹⁴	up to 10 Modules ¹²	up to 6 Modules ¹⁴	-
2 x (600 x 800 x 2000) ¹⁴	-	up to 12 Modules ¹⁴	-
800 x 800 x 1800	-	-	up to 4 Modules ¹⁵
800 x 800 x 2000	-	-	up to 5 Modules ¹⁶
1 x (800 x 800 x 2000) ⁶¹	-	-	up to 6 Modules ¹⁶
1 x (800 x 800 x 2000) ⁷¹	-	-	with distribution cabinet ¹⁷
2 x (800 x 800 x 2000) ⁶¹	-	-	up to 12 Modules ¹⁶
1 x (800 x 800 x 2000) ⁷¹	-	-	with distribution cabinet ¹⁷
Weights (without modules)	¹¹ 190kg / ²¹ 210kg	³¹ 200kg / ⁴¹ 240kg	⁵¹ 245kg / ⁶¹ 250kg / ⁷¹ 320kg

Specifications subject to change without notice.



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