

Digital Energy™ ISM

Intelligent Synchronization Module

The Digital Energy™ three-phase UPS family consists of high performance and reliable systems providing critical power protection for a wide range of applications. Paralleling up to eight UPS units with GE's unique RPA™ technology (Redundant Parallel Architecture™) further increases reliability. With this technology every UPS is controlled in a true peer-to-peer configuration with redundancy in all critical elements and functions. The decentralized bypass offers great flexibility to up- or down-grade the system if requirements change in the future.

By applying redundant distribution networks you can further increase reliability. A Static Transfer Switch is able to select between two sources (UPS groups). As a standard, the Static Transfer Switch will supply the load from the preferred source. In case the main source fails, it will transfer the load to the alternative source. The Static Transfer Switch needs to be close to the load in order to minimize failure rate of the distribution network down-stream.

A key condition is that both sources are synchronized continuously. Also during battery operation.

The Digital Energy™ ISM allows the synchronization of two independent groups of parallel UPSs each containing a maximum of six UPS units of equal rating from 10-500kVA. The redundant power supply and communication with the parallel groups (as with GE's unique RPA) makes the ISM highly reliable, ensuring synchronization of the two groups at each condition.

Backed by Service 24x7 - Throughout their life cycle, all GE power quality systems are fully supported by service teams, which provide world-class, 24x7 preventive and corrective services, training and application expertise.



FEATURES & BENEFITS

- **Redundant Power Supply** providing highest reliability
- **Redundant Communication Bus** tolerating an accidental cable cut
- **CRC Code** (Cyclic Redundancy Check) for increased robustness of communication
- **High Precision Synchronization** enabling seamless transfer from one source to the other
- **Top and Bottom Cable access** for easy installation
- **Compatible** with GE Digital Energy SitePro® and SG Series UPS and with GE's unique RPA concept *
- **Global Power Supply Voltage** for worldwide usage (208 or 400 or 480Vac)
- **Synchronizes 2 groups of max. 6 UPS units** (ranging from 10-500kVA) each offering great flexibility
- **User Friendly Control Panel** providing complete information on the spot

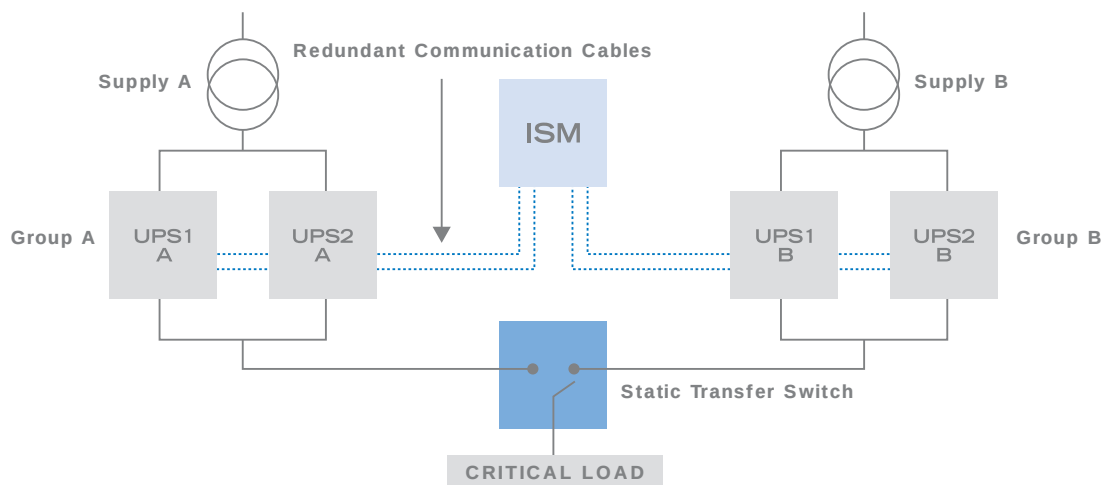
* Only if equipped with RPA, version E



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ISM - EXAMPLE OF APPLICATION

Group A and B are synchronized continuously so the Static Transfer Switch can supply the critical load from Group A or Group B



TECHNICAL SPECIFICATIONS

Topology : synchronization of 2 groups of max. 6 UPS each
Technology : DSP (Digital Signal Processor)

ISM - Intelligent Synchronization Module

Compatibility	SitePro UPS (S6 only) and SG Series *
Input voltage (power supply)	208 / 400 / 480 Vac 50/60Hz
Power consumption	25W
Weight	20 kg
Audible noise	<35 dBA
Enclosure	Wall Mounted
Protection degree	IP 20
Color	RAL 9010, white
Dimensions (hxxwxd)	585x350x190 mm
Ambient operating temperature	0 - 40° C
Safety standards	EN50091-1, IEC62040-1, IEC60950
EMC standards	EN50091-2 / FCC Class A

System Performance

Max phase shift between groups	< 0.2 degrees
Number of UPS per group (2 groups)	Max. 6
Addition to standard UPS	All UPS units need to be equipped with RPA *
Distance between UPS units	max. 85m between first and last unit

* Only if equipped with RPA, version E



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