Industrial Battery Chargers - Head to Head

Silicon Controlled vs. Switch Mode Rectifier

7 Critical technology features and performance factors to consider

Silicon Controlled		Switch Mode
HARD SWITCHING HIGH EMI - LOW EFFICIENCY	Phase Control EMI	**CONTROLLABLE** SWITCHING LOW EMI - HIGH EFFICIENCY
LOW FREQUENCY 45-65 Hz LARGER COMPONENTS	Switching Frequency	**HIGH FREQUENCY** 150-300 kHz SMALLER COMPONENTS
MONOLITHIC DESIGN SINGLE FAILURE POINT	Failure Point	**MODULAR POWER UNITS** BUILT-IN REDNDANCY
TWO CHARGERS ONE PRIMARY, ONE BACK UP	Redundancy	**ONE CHARGER** MULTIPLE POWER UNITS N+1 OR N+N
HEAVY+LARGE 1X	Weight & Dimensions	**LIGHT+COMPACT** $^1/_2$ X
SHUT DOWN TO REPAIR	Maintenance	**HOT PLUGGABLE** MODULES
SCALE WITH **SEPARATE CHARGERS**	Scalability	SCALE WITH **POWER MODULES**

For more information about ABB's Integritas Battery Chargers visit us at **go.ABB/Industrial**.