

















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 REDUNDANCY 
 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.