

TOSHIBA
Leading Innovation >>>



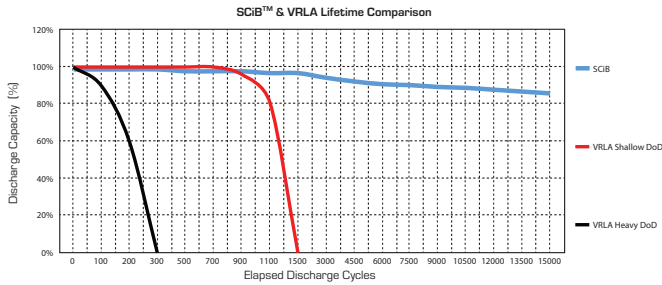
G9000 SERIES
SCiB™ LITHIUM ION ENERGY STORAGE



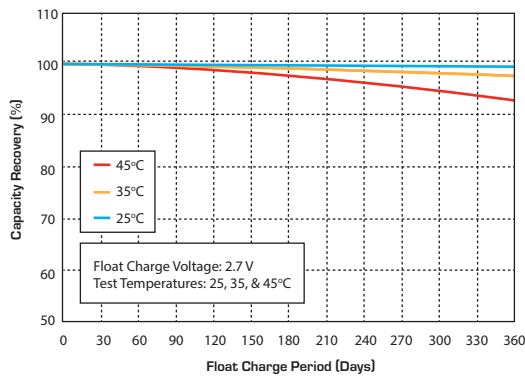
»»» G9000 SERIES

» LONG LASTING VALUE

- Full system, from cell to enclosure, is manufactured by Toshiba
- Long Operation Life: 20 Times Greater than VRLA Lifetime



- Maintains Over 90% Charge for One Year in Storage Environment of -30°C to 45°C

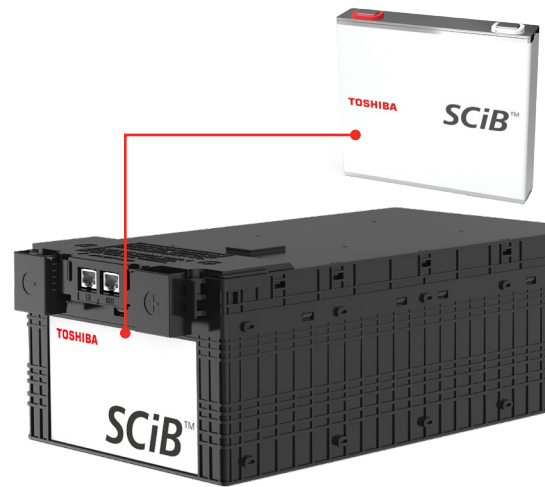


» SAFETY & DURABILITY

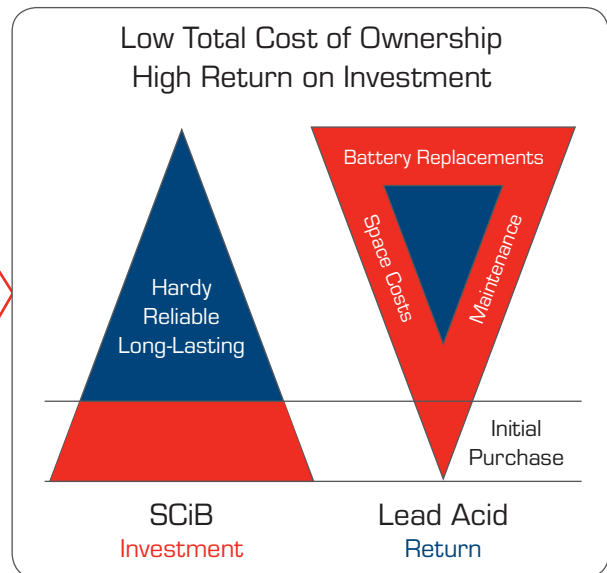
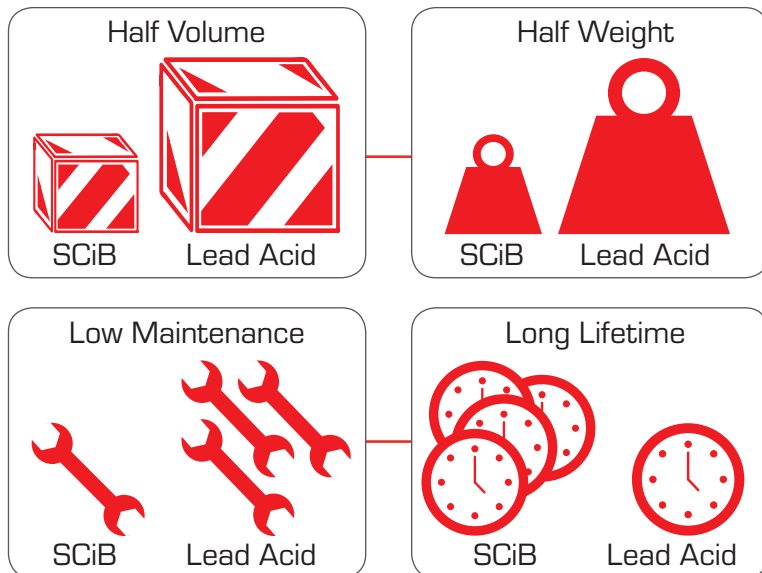
- Lithium Titanate Oxide (LTO) composition offers superior safety properties.
- Temperature Resilient: -20°C to 40°C
- Design Prevents Thermal Runaway
- 12 Year On-Site Warranty: PM Every 3rd Year Included

» SUPERIOR CELLS

- Half the Volume and Weight of VRLA
- Module and Cell Level Monitoring Via Modbus RTU
- Optional HMI Display
- Cabinet is certified to UL1973 and UL9540.
- End of Life Runtime is equal to Beginning of Life Runtime



SCIb Module



G9000 SERIES

> SPECIFICATIONS

ELECTRICAL	PARAMETER	STANDARD
	Capacity	44.7kWh, 90Ah
	Nominal Voltage	497VDC
	Voltage Range	455-565VDC
	Maximum Charge Voltage	565VDC
	Maximum Charge Current	32ADC
	DC Current Max	560A
	Module Type	Type 3-23 2P12S Module
	AC Input (Control Power)	480VAC, 5A, 2PH, 2W
ENVIRONMENTAL	Operating Temperature	0 to 40°C
	Ambient Humidity	85% RH or Less (No condensation)
	Enclosure	NEMA 1, Indoor Only
	Storage Temperature	0 to 40°C
	Weight	1950 lbs
	Unit Dimensions (per cabinet)	34.1" x 32.8" x 80.6" (WxDxH)
GENERAL	600A Internal DC Breaker	
	ETL Listed to UL1973 and UL9540	
	Two strings of (18) 2P12S SCiB Modules per Cabinet	
	NEMA 1 Enclosure	
	Top & Bottom entry/exit	
	Convection Cooled	
	Modbus RTU Communication	
OPTIONS	Human Machine Interface (HMI) Providing Additional Display Detail and Cell Level Monitoring	

> TOSHIBA G9000 SCiB ENERGY STORAGE SYSTEM RUN TIME TABLE (MINUTES)

UPS kW Load	QUANTITY OF TOSHIBA G9000 SCiB ESS CABINETS (Part Number G9B00SCiBTS2PH)							
	1	2	3	4	5	6	7	8
80	13:00	>18:10	>20:30	>21:45	>22:30	>23:00	>23:30	>23:50
100	11:20	>17:00	>19:30	>20:55	>22:00	>22:30	>23:00	>23:25
160	7:05	>13:25	>16:30	>18:25	>19:45	>20:40	>21:20	>21:55
225	4:00	10:25	>13:55	>16:10	>17:40	>18:45	>19:40	>20:25
300	-	6:45	10:30	>13:00	>14:45	>16:15	>17:20	>18:05
500	-	2:05	5:45	8:25	10:30	>12:05	>13:25	>14:30
650	-	-	3:25	6:00	8:05	9:45	>11:10	>12:20
750	-	-	2:10	4:35	6:45	8:25	9:50	>11:05
1000	-	-	-	2:05	4:00	5:45	7:10	8:25
1330	-	-	-	-	-	3:05	4:30	5:45
1500	-	-	-	-	-	2:05	3:30	4:35
1650	-	-	-	-	-	-	2:35	3:45
2000	-	-	-	-	-	-	-	2:05

Notes:

- Run Times Shown are in Minutes/seconds
- All G9000 SCiB ESS Run Times Beginning of Life (BOL) Equal End of Life (EOL)
- No Run Time Indicated in Cell Means N/A

 Run Times Highlighted in White are Estimates

 Cells Highlighted in Red are Run Times for Toshiba G9000 kVA Models at 100% Load