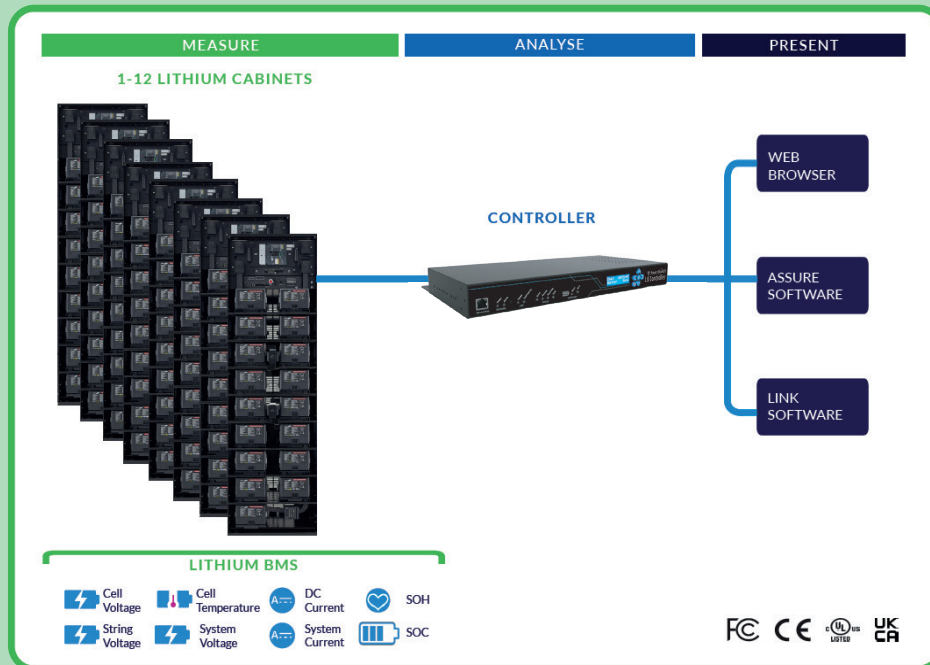




The PowerShield8 system provides detailed monitoring for Samsung lithium battery cabinets, with hardware options for both large and small installations.



A PowerShield8 Controller augments each Samsung BMS system – collating, storing and presenting the data and alarms provided. PowerShield Assure and PowerShield Link battery monitoring software give tools for tracking and understanding the full life of your battery assets.

PowerShield8 helps ensure that your batteries are primed and ready to perform when you need them.

SYSTEM

Cell level information	Voltage, Temperature
String/System level information	Voltage, Current, SOH, SOC, MCCB, Fuse
Battery types	Samsung SDI Lithium models 136S, 128S, 112S, 104S, 96S & 80S
Battery charging regimes	Float and intermittent
Environment	Operating temp: 0° to 50° C / 32° to 122° F Storage temp: 10° to 70° C / 14° to 158° F 10-90 % RH non-condensing Altitude: 2,000m Max. Indoor use only

LINK BATTERY MONITORING SOFTWARE

Minimum PC Requirements ²	
Processor	Intel i5-13500, for virtualization 4 cores
Operating System	Windows 10 or 11, Windows Server 2019 or later
RAM	16 GB
Disk	20GB free space + 5GB per Controller Storage example, 30 Controllers @ 5GB each, total = 20GB + (30 x 5GB) = 170GB
Monitor	1980 x 1020 (FHD)

CONTROLLER

Model	MX Controller	LX Controller	LX+ Controller
Capability	Up to 272 cells, Up to 2 strings /cabinets	Up to 1088 cells, Up to 8 strings /cabinets	Up to 1632 cells, Up to 12 strings /cabinets
Memory	1 GB RAM 8 GB Flash	2 GB RAM 16 GB Flash	4 GB RAM 128 GB Flash
Display	-	16 x 2 character LCD	16 x 2 character LCD
Configuration interface minimum version	Web browser - Chrome 58, Edge 79, Firefox 54, Safari 10.1	Web browser - Chrome 58, Edge 79, Firefox 54, Safari 10.1	Web browser - Chrome 58, Edge 79, Firefox 54, Safari 10.1
Communication Ports Service Port [Front] Port 1 Port 2 & 3	USB 2.0 (Type B) 1000Base-T Ethernet Wifi or 4G cellular optional (factory fitted only) ¹	Ethernet port Ethernet port (1000Base-T) Expansion port - optional WIFI ¹ or 4G cellular	Ethernet port Ethernet port (1000Base-T) Expansion port - optional WIFI ¹ or 4G cellular
Protocols	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS
Offline data transfer	SD Card Storage	USB data storage	USB data storage
Relay outputs	1 SPDT, 1A @ 30V DC, resistive	4 SPDT, 1A @ 30V DC, resistive	4 SPDT, 1A @ 30V DC, resistive
Digital inputs	-	2 (Voltage free / Dry contact)	2 (Voltage free / Dry contact)
Power consumption	1.5W	5W	5W
Power supply	AC Model: 90 - 260V 50/60Hz 48V DC Model: 18 - 60V 110V DC Model: 80 -150V	AC Model: 90 - 260V 50/60Hz 24V DC Model: 18 - 30V 48V DC Model: 35 - 60V 110V DC Model: 80 -150V	AC Model: 90 - 260V 50/60Hz 24V DC Model: 18 - 30V 48V DC Model: 35 - 60V 110V DC Model: 80 -150V
Dimensions Width Depth Height Weight	1U High 19" rack mountable 250mm / 9.84 inches 155mm / 6.1 inches 36mm / 1.4 inches 1.2kg / 2.7 lb	1U High 19" rack mountable 430mm / 16.9 inches 265mm / 10.4 inches 45mm / 1.8 inches 3.0kg / 6.6 lb	1U High 19" rack mountable 430mm / 16.9 inches 265mm / 10.4 inches 45mm / 1.8 inches 3.0kg / 6.6 lb

Notes

- 1 Wi-Fi 802.11 dual band 2.4/5 GHz a/ac/b/g/n, security WPA2.
- 2 Maximum of 50 lithium systems per Link instance recommended, contact PowerShield for more information.



PowerShield

SMART BATTERY MANAGEMENT