

SPM-612 SOLDIER-WORN POWER MANAGER



ENABLES A WIDE RANGE OF MILITARY APPLICATIONS

- Man-packable power integration
- Soldier-worn battery management
- BB-2590, Li-145, AA field charger
- Any suite of gear using multiple BA-5590s for power
- Fuel cell and solar power sources

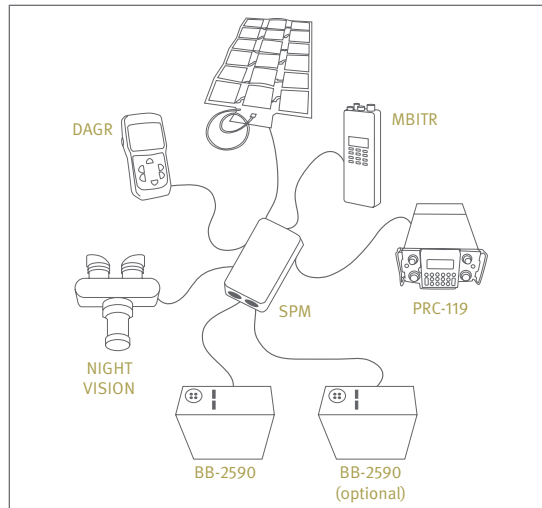
PROTONEX LEADS THE INDUSTRY IN HIGH-PERFORMANCE, ADVANCED POWER SYSTEMS FOR PORTABLE MILITARY APPLICATIONS

The SPM dramatically reduces the number and variety of batteries needed by today's dismounted warfighter, while actively monitoring and managing power usage to assure mission success. Protonex' unique system design combines leading edge advances in ultra-high efficiency power conversion, equipment power management, and energy harvesting technology in one product to offer benefits nowhere else available to military users. The SPM system design offers a lightweight, compact, and rugged intelligent power management solution designed to withstand the harsh operating conditions of military field use. This unit directly powers virtually any man-packable military equipment, recharges a soldier's or squad's batteries, and intelligently adjusts to changing mission conditions or requirements.

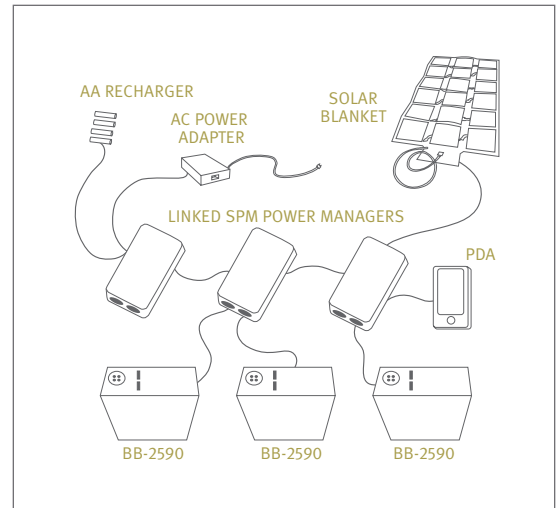
SPM-612 BENEFITS

- Manages and prioritizes battery usage
- Powers man-worn and man-packable gear
- Recharges military and commercial batteries
- Optimizes solar/alternative power sources
- Monitors power sources and loads, alerting warfighter to problems
- Dynamically adjusts to changing mission needs
- Smart Cable ID configures ports automatically
- Provides graphical display to show power trends and permits advanced configuration

ON-MISSION EXAMPLE



OFF-MISSION EXAMPLE



THE NEXT GENERATION OF PORTABLE POWER™

FEATURES & FUNCTIONS

- Six universal power ports permit versatile operation powering devices, managing energy sources, and charging up to five batteries (BB-2590 or Li-145)—any or all of which can occur simultaneously
- Two ports can power equipment at independently configurable 5–30 VDC. Two additional devices can be powered at 15 V nominal
- Graphical interface shows detailed port status and trends, battery health and configuration information
- Full SMBus and USB connectivity for set-n-forget charging, accurate state-of-charge indication, battery health monitoring and reporting, and mission profiling/configuration
- Two-port energy scavenger efficiently harvests power from solar panels, primary batteries, automobile batteries and battery chargers, and other found power sources
- Compatible with Protonex M250-CX portable battery charger

SPM-612 TECHNICAL SPECIFICATIONS

PHYSICAL	Size	1.8 h x 4.0 w x 2.3 d inches (4.6 x 10.2 x 5.8 cm)
	Weight	0.9 lbs (0.40 kg)
	Color	Desert Sand
	Operating Temperature	-40 to 60°C
INPUT/OUTPUT	Number of Ports	Six Bidirectional
	Port Voltage	4–34 VDC
	Port Max Power	150 Watts
	Port Max Current	10 Amps
	Battery Voltage	11–17 VDC, 14.4 V Nominal
	Port Protection	Over-voltage, Over-current, Short-circuit, Reverse Polarity, Surge, EMI
	Protection Reset Data Interface	Automatic Self-reset USB 1.0 Port
BATTERY CHARGE	Simultaneous Charge	Up to Three Batteries
	Sequential Charge	Up to Five Batteries
	Military Battery Support	BB-2590, BB-2557, Li-80, Li-145, 28V Vehicle
	Commercial Battery Support	AA, AAA, RCR-123, 12V Vehicle
	Smart Charging	SMBus 1.1 and SMBus 2.0 Support, All Ports
ENERGY HARVESTING	Harvester Ports	Up to Two
	Harvest Range	4–34 VDC
	Solar Algorithm	Peak Power Point Tracking (PPPT)
	Primary Battery Harvesting	Automatic
	Fuel Cell Interface / Control	Automatic
USER INTERFACE	Port Charge Indicator	5-Segment Meter for Each Port
	Port Status Indicator	3 Status Indicators (Red/Yellow/ Green) for Each Port
	Graphical Display	Backlit LCD Interface
	Control Keypad	Up, Down, Enter and Escape buttons

All specifications subject to change without notice.

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