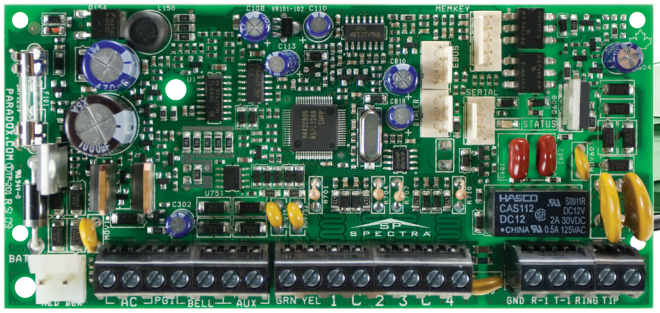
PARADOX™

Spectra SP Series

4 to 32-Zone Expandable Security Systems



Description

Spectra SP control panels (SP4000, SP5500, SP6000, SP65, and SP7000) offer a combination of innovative features and an advanced communication bus for a uniquely expandable security system. Through its communication bus, all Spectra SP panels can be expanded via wireless and hardwired expansion modules and a variety of accessory modules. With their in-field firmware upgrade capability, the Spectra SP series allows installers to upgrade their system without hassle – quickly, easily, and on-site. To further facilitate installation, every Spectra SP panel can be configured using easy-to-follow, menu-driven programming.

Spectra SP also features multipath communication; this enables your system to communicate through multiple channels, including telephony with its built-in landline dialer, IP with the IP150 Internet Module, IP/GPRS/GSM with the PCS series module, and voice with the VDMP3 Plug-In Voice Module.

With its reliable communication technology, flexible expansion and user-friendly keypads, Spectra SP is the complete residential or commercial security solution.

Features

- Supports StayD mode
- 4-wire expansion bus
- Wireless expansion (via RTX3 / RX1)
- Expandable to 32 zones
- Expandable to 16 PGMs
- 2 partitions
- 32 user codes
- Supports PCS series modules
- Supports IP150 Internet Module
- Supports VDMP3 Plug-in Voice Module
- Supports REM3 Hand-held Remote Keypad
- Supports SR150 Wireless Siren
- Landline dialer (except SP65)
- In-field firmware upgradable

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System Overview

Control Panels

SP65

SP65: 9 to 32-Zone Control Panel
SP4000: 4 to 32-Zone Control Panel
SP5500: 5 to 32-Zone Control Panel
SP6000: 8 to 32-Zone Control Panel
SP7000: 16 to 32-Zone Control Panel

4-wire BUS

Wired Keypads

TM70

TM70: Intuitive Touchscreen
TM50: Intuitive Touchscreen
K32LX: Wired LCD Keypad with Integrated RF Transceiver
K32LCD+: 32-Character Wired LCD Keypad Module
K35: 32-Zone Wired Fixed LCD Keypad Module
K32+: 32-Zone Wired LED Keypad Module
K10V: 10-Zone Wired LED Keypad
K10H: 10-Zone Wired LED Keypad
K636: 10-Zone LED Keypad Module

Video Monitoring

HD88

HD88: Outdoor 720p HD Camera
HD78F: Event-Driven Indoor Security IP Camera / Detector

Wireless Keypads and Remotes

K37

K37: 32-Zone Wireless Fixed LCD Keypad
REM3: Hand-Held Two-Way Remote Control Keypad
REM25: 2-Way Remote Control with Backlit Buttons
REM2: 2-Way Remote Control with Backlit Buttons
REM1: Remote Control with Backlit Buttons
REM15: Remote Control with Backlit Buttons
REM101: Emergency / Panic Remote Control
RAC1: Remote Control with Integrated Access Card

Expansion Modules

ZX82

ZX82: 8-Zone Expansion Module
ZX8SP: 8-Zone Expansion Module
ZX8: 8-Zone Expansion Module
PGM82: 8-PGM Expansion Module
PGM4: 4-PGM Expansion Module
RTX3: Wireless Expansion Module
RX1: Wireless Receiver

Wireless Devices

PMD85

PMD85: Wireless Outdoor Digital Dual-Optic High-Performance PIR
PMD75: Wireless Digital Dual-Optic High-Performance PIR
PMD2P: Wireless PIR Motion Detector with Built-in Pet Immunity
NV75MR: Wireless 16M Dual Mironel Optics Pet Immune Anti-Mask Detector
NV35MR: Wireless Outdoor / Indoor Window and Sliding Door Dual Detector with Anti-Masking and Pet Immunity
NV780MR: Wireless Dual Side-View Outdoor Detectors with Anti-Masking and Pet Immunity
DCT6: Wireless Door Contact
DCT10: Wireless 2-Zone Long-Range Door Contact
DCTXP2: 2-Zone Wireless Door Contact
DCT2: Wireless Ultra-Small Door Contact
G550: Wireless Glass Break Detector
GS250: Gpower Wireless Multi-axis Detector
SD360: Wireless Ceiling-Mounted Smoke Detector
SR130: Wireless Outdoor Siren with Built-in Strobe Light
SR150: Wireless Outdoor Siren with Built-in Strobe Light
RPT1: Wireless Repeater Module
2WPGM: 2-Way Wireless PGM

Communicator Modules

PCS265LTE

PCS265LTE: LTE / 4G / 3G / 2G / GSM Communicator Module
PCS250 / G: GPRS / GSM Communicator Module
IP150: IP Communicator
VDMP3: Plug-In Voice Module

Software & Accessories

Insite GOLD

Insite GOLD: Mobile App
PS25: 2.8A Supervised Power Supply
PS45: 5A Supervised Bus Power Supply
HUB2: 2 Port HUB
PMC5: Memory Key
307USB: Direct Connect Interface
BabyWare: PC Software
InField: Firmware Upgrade Software

For compatibility details, visit us at paradox.com

Feature Details

Internet Communication (IP150)

The IP150 Internet Module allows you to control and monitor your security system remotely through any web browser. It allows for email notifications of important system events such as alarms, arm/disarm events, and troubles. For example, receive an email at work when your kids get back from school. Also, view the live status of your system and arm/disarm it. For instance, you have just left your office for the weekend but are unsure whether you armed the system. Simply check the status of your system from a laptop and arm it.

Wireless Communication (PCS Series)

The PCS series modules provide the Spectra SP control panels with wireless communication capabilities to report system events via IP, GPRS, and/or GSM. Whether it be uploading/ downloading via IP or GPRS, receiving system status and events by voice or text message, or reporting to the monitoring station via IP, GPRS, or GSM, the PCS series enhances the communication capabilities of any Spectra SP installation.

Voice Communication (VDMP3)

The VDMP3 is a plug-in, voice-assisted module that can be programmed to call up to five telephone numbers in the event of an alarm. For example, when an alarm occurs at your store during off-hours, every employee can receive notification via telephone. You can also call the VDMP3 from an outside line, enabling you to arm or disarm the system as well as activate PGMs. The VDMP3 essentially turns any outside telephone into a keypad. The VDMP3 is easy to install; plug it in directly onto the panel, set the phone numbers, and select the activation event.

StayD

StayD resolves all issues with common security systems and represents the only solution for secure living. The revolutionary StayD feature represents a completely reversed philosophy compared to all other security systems made today. Traditional systems share the same principle - in order to provide security, users must remember to arm the system; otherwise the system is disarmed and does not provide security. A StayD system is always armed, and needs only to be partly disarmed when an entry or exit is needed. With StayD, you can truly have peace of mind knowing, that you are always protected.

In-field Upgradable

Spectra SP is not only easy to install, but is also fully in-field upgradable, allowing for simple on-site updates. The process is effortless; connect the PC to the panel and you are a few clicks away from performing a complete system upgrade within minutes. No need to change panels or hardware; all the updates are performed using Paradox's InField Firmware Upgrade Software.

App-based System Control

The Insite GOLD app enables you to remotely access your Paradox security system and view your system cameras. Insite GOLD provides lots of functionality and information at one's fingertip. It has an intuitive user-interface which enables you to easily connect to your security system and edit settings. Now you can control your Paradox security system from any Android / iOS smartphone.

TM70 Overview

11.4 cm
4.5 in

17.7 cm
7 in

TM70: Intuitive Touchscreen

SpotOn Locator™

Upload photos, images, or schematics to eliminate the need for deciphering LED zone lights. These images display any door, window, or motion detector that are active. Since the images are uploaded by the user, they are truly customized, and can be unique to each installation. SpotOn Locator™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

OneScreen Monitoring™

Provides a real-time visual display of the system's status on one screen. It allows the user to choose which partitions will be displayed showing arming level, alarm, ready, and troubles. It also displays zone statuses; open, close, bypass, alarm, and tamper. OneScreen Monitoring™ also features Solo Test™ mode, which allows installers and users to easily test all system zone's via the TM70 Touch's screen. OneScreen Monitoring™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

Specifications

Display	16-bit, color LCD; 8.6 x 15.4 cm (3.1 x 5.9 in.), 800 x 480 pixels
Input Voltage	9 to 15 Vdc
Current Consumption	250 mA at max brightness + 80 mA sounder
Keypad Zone Input	1 for a detector or external temperature sensor
Tamper	Built-in, cover and wall
Humidity	5 to 90%
Operating Temperature	-10 to 55 °C (14 to 131 °F)
Compatibility	Swan, EVO, Spectra, Magellan

Note: All control panel outputs are rated to operate between 11.4 Vdc and 12.5 Vdc.

TSP-G2K rev.15 - Printed in Canada 04/2019
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Specifications PRX2780000033-P2C

The PRX2780000033-P2C is a metal box enclosure for provision multiple module and panel mounting.

Features:

- Many punch-out holes for simple wiring
- Easy door removal
- Sizes: 28cm X 28cm X 7.6cm (11" x11" x 3")

Specifications PRXK-TK278

The PRXK-TK278 is a BOM Kit for 1x tamper switch PRX2502302000-P2C and 1x tamper bracket PRX2781030000-P2C to suit with Paradox Metal Box Enclosure PRX2780000033-P2C; to protects against tampering (opening door or removal from wall).

SP5500+ / SP6000+ / SP7000+ User Guide

4 to 32-Zone Expandable Security Systems

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Specifications PRXK32LCD+-N3Q

The PRXK32LCD+-N3Q is a 32-Character Hardwired LCD Keypad Module.

Features:

- Beautiful new design
- 32-character blue LCD with programmable labels
- Real-time zone alarm display (until disarmed)
- In-field firmware upgrade via 307USB
- StayD status LED
- Menu-driven programming for easy system setup (installer and end user)
- 1 keypad zone input
- Independently set chime zones
- 8 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight, contrast and scroll speed
- Connects to 4-wire expansion bus
- Compatible with MG5000, MG5050, MG5075, and Spectra SP series V2.31 and up
- Compatible with SP4000, SP65 V4.90 and up

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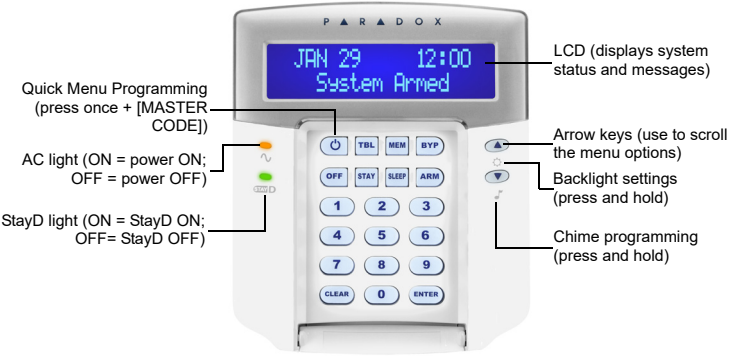
Quick Start
K32LCD+ Keypad



How To Arm

Arming When Exiting (Regular Arm)

To arm your system when exiting:

Step	Description
1.	Close all zones in the desired partition.
2.	Press [ARM] and enter your [ACCESS CODE].

Note: To arm with StayD enabled, refer to the StayD user manual, available at paradox.com. To learn more about StayD, contact your installer.

Arming When Staying (Stay / Sleep Arm)

To arm your system when staying:

Step	Description
1.	Press [STAY] for stay arming or [SLEEP] for sleep arming and then enter your [ACCESS CODE].
2.	Select the desired partition (1 or 2). For both, press one, then the other after the beep.

K32LCD+-EQ01
Printed in Canada - 08/2019

How to Disarm

To disarm your system when entering:

Step	Description
1.	Press [OFF] and enter your [ACCESS CODE].
2.	Select the desired partition (1 or 2). For both, press one, then the other after the beep.

Panic Keys

To send a silent or audible alarm to your security company, press and hold one of the key combinations listed below, for two seconds.

Panic Alarm	Key Combinations
Police	Keys [1] & [3]
Medical	Keys [4] & [6]
Fire	Keys [7] & [9]

Alarm Memory Display

To view the alarms that occurred during the last armed period:

Step	Description
1.	Disarm the system.
2.	Press [MEM]. All zones that were breached during the last armed period will be displayed. Use the arrow keys to view the zones.
3.	Press [ENTER] to save and exit.

Trouble Display

The LCD screen will display all troubles when they occur. To view and clear troubles:

Step	Description
1.	Press [TBL].
2.	Scroll through the list of troubles using the arrow keys. Refer to the MGSP User Guide for trouble descriptions and instructions.
3.	Perform the recommended repair instructions to clear the trouble. If no instructions are given, contact your security company.
4.	Press [CLEAR] to exit.

How to Bypass Zones

When a zone is bypassed, it remains unarmed when the corresponding area is armed. To bypass zones:

Step	Description
1.	Press [BYP].
2.	Enter your [ACCESS CODE].
3.	Select the zone you want to bypass by entering the zone number, e.g., zone 3=03.
4.	Press [Enter].

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VRLA 12V7AH

SA12V7

Specifications

Nominal Voltage	12 V
Nominal Capacity 20HR	7.0 AH
Dimensions	Length 151±1mm (5.94 inches) Width 65±1mm (2.56 inches) Container Height 95±1mm (3.74 inches) Total Height (with terminal) 100±1mm (3.94 inches)
Approx Weight	Approx 2.10 kg (4.63 lbs)
Terminal	F1
Container Material	ABS Plastic
Lead Material	Purity Lead 99.995%
Sulfurid Acid	Distilled Sulfurid Acid (Zero metal content)
Separator	AGM
Rated Capacity	7.00 AH/0.350A (20hr, 1.80V/cell, 25°C/77°F) 6.53 AH/0.653A (10hr, 1.80V/cell, 25°C/77°F) 6.00 AH/1.20A (5hr, 1.75V/cell, 25°C/77°F) 5.37 AH/1.79A (3hr, 1.75V/cell, 25°C/77°F) 4.55 AH/4.55A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	105A (5s)
Internal Resistance	Approx 23mΩ
Operating Temp.Range	Discharge : -15 - 50°C (5 - 122°F) Charge : 0 - 40°C (32 - 104°F) Storage : -15 - 40°C (5 - 104°F)
Nominal Operating Temp.Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 2.1A. Voltage 14.4V - 14.7V at 25°C (77°F) Temp.Coefficient -30mV/°C
Standby Use	No limit on Initial Charging Current Voltage 13.5V - 13.8V at 25°C (77°F) Temp.Coefficient -20 mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Sentry AGM series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

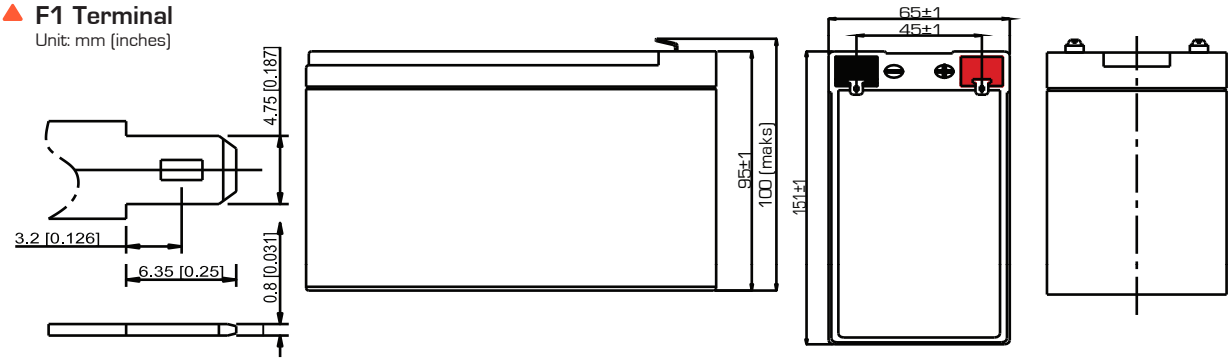
Applications

- All purpose
- Standby Applications
- Recreation Vehicles
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Fire & Security
- Generators
- Medical Equipment

Dimensions

F1 Terminal

Unit: mm (inches)



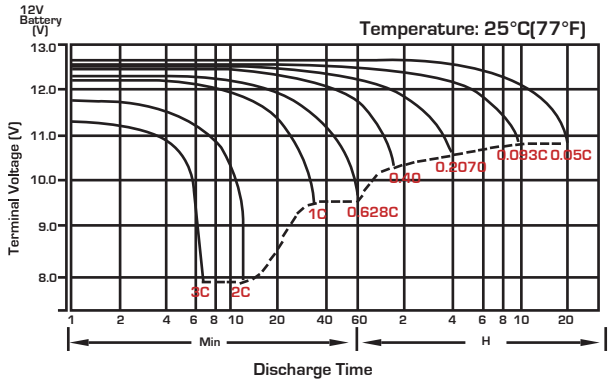
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.0	12.8	10.48	8.79	6.53	4.79	3.86	2.29	1.69	1.36	1.14	0.98	0.774	0.640	0.345
1.80V/cell	21.4	14.3	11.4	9.44	6.94	5.05	4.03	2.38	1.74	1.40	1.17	1.01	0.791	0.653	0.350
1.75V/cell	24.2	15.6	12.2	10.0	7.29	5.27	4.18	2.45	1.79	1.43	1.20	1.03	0.805	0.663	0.357
1.70V/cell	26.7	16.7	12.9	10.5	7.59	5.46	4.32	2.51	1.83	1.46	1.22	1.05	0.817	0.672	0.361
1.65V/cell	28.8	17.7	13.5	10.9	7.86	5.62	4.46	2.57	1.86	1.48	1.23	1.06	0.826	0.680	0.365
1.60V/cell	30.6	18.6	14.1	11.3	8.09	5.76	4.55	2.61	1.89	1.50	1.25	1.07	0.834	0.685	0.367

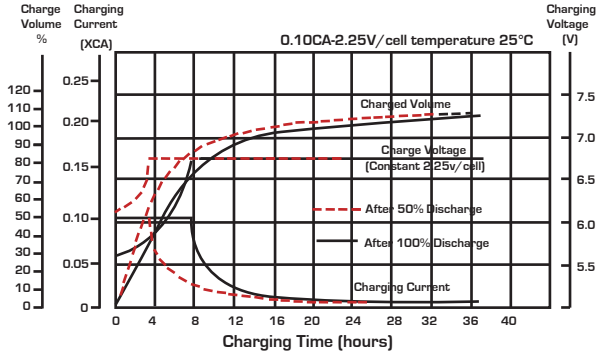
Constant Power Discharge (Watts/Cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.2	24.5	20.2	17.1	12.8	9.44	7.64	4.56	3.37	2.72	2.29	1.99	1.565	1.296	0.701
1.80V/cell	40.2	27.2	21.9	18.3	13.5	9.91	7.96	4.72	3.47	2.79	2.34	2.03	1.593	1.318	0.708
1.75V/cell	45.1	29.5	23.3	19.3	14.2	10.3	8.23	4.85	3.55	2.85	2.39	2.06	1.616	1.344	0.719
1.70V/cell	49.2	31.3	24.5	20.1	14.7	10.6	8.48	4.96	3.62	2.89	2.42	2.09	1.633	1.347	0.725
1.65V/cell	52.6	32.9	25.5	20.8	15.2	10.9	8.73	5.05	3.68	2.93	2.45	2.11	1.649	1.359	0.731
1.60V/cell	55.5	34.3	26.3	21.5	15.5	11.2	8.88	5.12	3.72	2.96	2.47	2.13	1.660	1.367	0.734

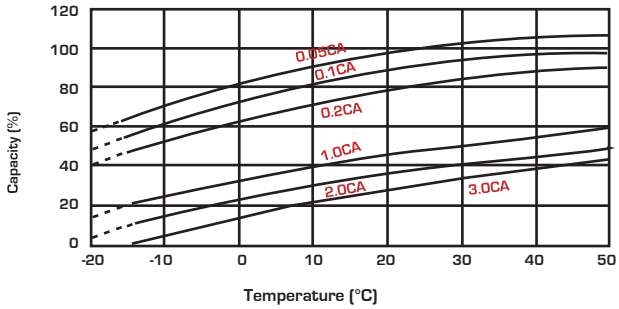
Discharge Characteristics



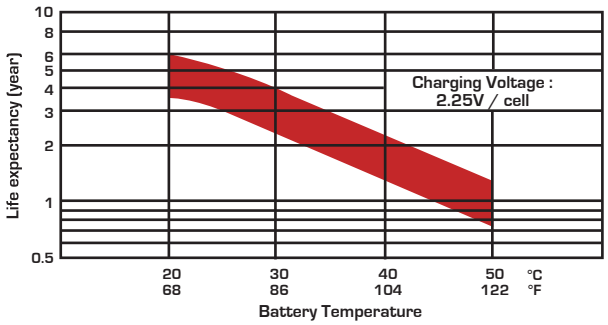
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity

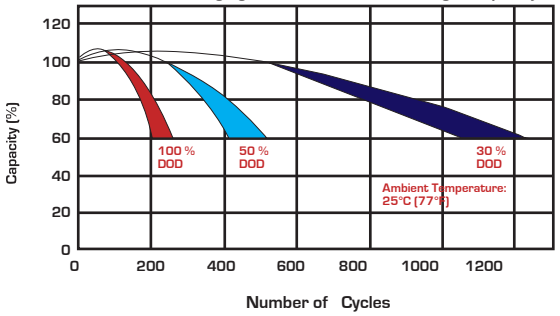


Effect of Temperature on Long Term Float Life

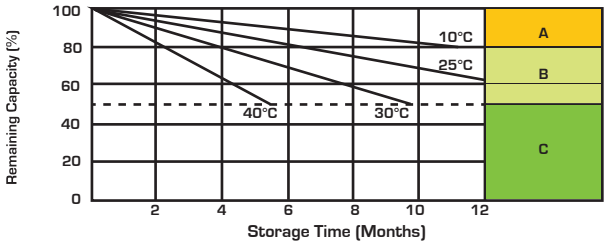


Cycle Life in Relation to Depth of Discharge

Testing condition
Discharging: current 0.17CA (FV1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity



Self Discharge Characteristics



No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required

Supplementary charge required before use. Optional charging way as follows the table charging system.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing still this is reached.

Charging System

D O D	Currency Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	10
	0.20C_{10}		8
50	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	15
	0.20C_{10}		12
80	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	16
	0.20C_{10}		14
100	0.15C_{10}	13.5-13.8 vpc (12V) 6.75-6.9 vpc (6V)	20
	0.20C_{10}		18

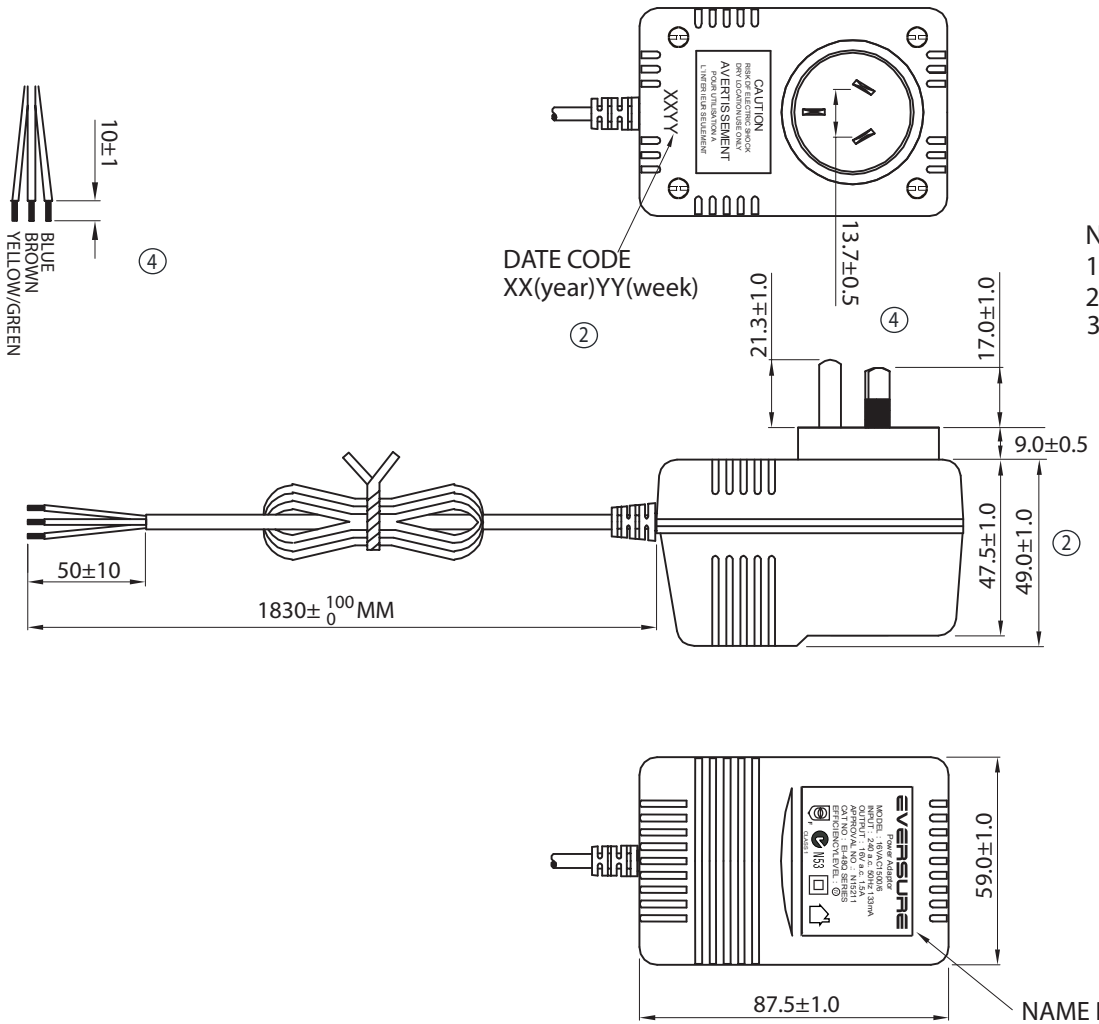
State of Charge (SOC)

Open Circuit Voltage (V/cell)	Open Circuit Voltage (12V/cell)	Open Circuit Voltage (6V/cell)	State of Charge (% of full charge capacity)
2.14-2.15	12.84-12.90	6.42-6.46	100
2.12-2.13	12.72-12.78	6.36-6.39	90
2.11	12.66	6.33	80
2.09	12.54	6.27	70
2.07	12.42	6.21	60
2.05	12.30	6.15	50

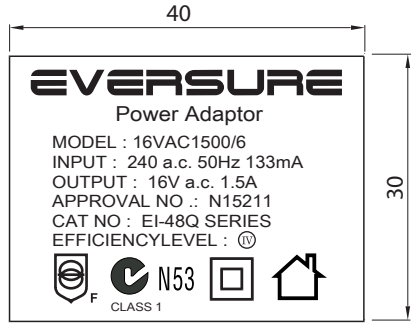
SPB
Sealed Performance Batteries

Domestic Sales | Ph: +61 (0)7 3386 1102 | Fax: +61 (0)7 3102 9913
sales@spb.net.au | **www.sealedperformance.com.au**
National Warehouse | 1 Ant Road | Yatala, Brisbane QLD 4207
Melbourne Office | 2/9 Compark Circuit | Mulgrave, Melburne VIC 3170

	REVISED	DRAWN	APPROVED
①	AMENDED PACKING QTY AND CARTON SIZE	JACKY 10/08/09	GARY 10/08/09
②	ADDED DATE CODE ON CASE AND DIMENSIONS	JACKY 07/12/09	GARY 07/12/09
③	ADDED PASSED LABEL ON CARTON	TODD 22/12/10	JACKY 22/12/10
④	AMENDED AC PINS DIMENSION & ADDED WIRES COLORS	ANLEI 01/11/12	ANLEI 01/11/12
⑤	CHANGED CROSS-SHAPPED SCREW TO SHAPE ⌶ SCREW ON CASE	MARK 31/08/15	FREDERICK 31/08/15



NOTES:
1. OUTPUT CORD:20AWGX3C 1.83M Lead Free GREY (RAL7035)
2. CASE: GREY (RAL7035)
3. SECURITY SCREW IS AN ESSENTIAL REQUIREMENT, BOTH "⌶" AND "△" SHAPE ARE ACCEPTABLE



LABEL ARTWORK
Black word on Silver base label

TE DRAWING NO: TE40-0001 R5						PART NO: 16VAC1500MPS/6		
DESCRIPTION: AC ADAPTOR EI-48Q,16VAC1500mA, 3 WIRE - MEPS								
SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09	KG ORDER REF: 0420	SHEET 1 OF 3	*TOLERANCES UNLESS OTHERWISE STATED*
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09	CUSTOMER: TE		*X.= +/-1*
SCALE	NTS	MANU:				DATE:		*.X=+/-0.5*
								.XX=+/-0.2

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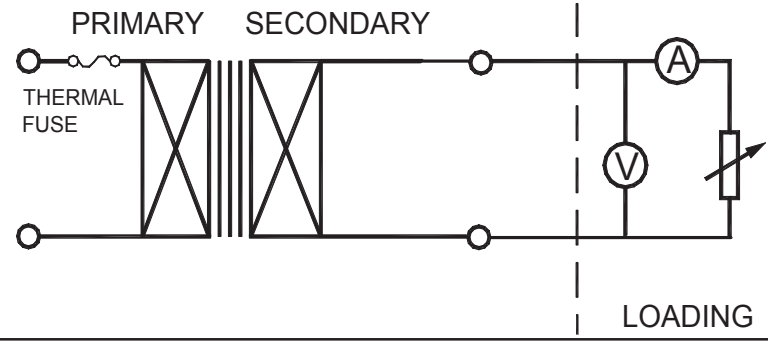
ITEM		SPECIFICATION
1. Primary rated input voltage		AC240V 50Hz 133mA
2. Secondary rated output voltage and current		Unloaded voltage: AC 18 V ± 5% Loaded Voltage : AC 16 V ± 5% AT 1500 mA
3. Ripple voltage		*** mV (RMS) MAX. AT Rated Loading
4. Insulation resistance		Primary - secondary: DC 500 V 100 MΩ Min
5. Dielectric withstand test		Primary - secondary: AC 3.64 KV 1 seconds
6. Temperature rise		At rated loading 90℃ max. For input coil (By resistance method) and 55℃ max. on case surface (By use of thermometer)
7. EFFICIENCY		≥ 79%
8. Leadout	Primary	SAA PLUG IN TYPE
	Secondary	PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED
9. Test circuit		
10. Case		SAA48 colour = GREY (RAL7035)

	REVISED	DRAWN	APPROVED
1	AMENDED PACKING QTY AND CARTON SIZE	JACKY 10/08/09	GARY 10/08/09
2	ADDED DATE CODE ON CASE AND DIMENSIONS	JACKY 07/12/09	GARY 07/12/09
3	ADDED PASSED LABEL ON CARTON	TODD 22/12/10	JACKY 22/12/10
4	AMENDED AC PINS DIMENSION & ADDED WIRES COLORS	ANLEI 01/11/12	ANLEI 01/11/12
5	CHANGED CROSS-SHAPPED SCREW TO SHAPE ⌶ SCREW ON CASE	MARK 31/08/15	FREDERICK 31/08/15

TE DRAWING NO: TE40-0001 R5 | PART NO: 16VAC1500MPS/6

DESCRIPTION: AC ADAPTOR EI-48Q,16VAC1500mA, 3 WIRE - MEPS

SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09	KG	ORDER REF: 0420	SHEET 2 OF 3
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09	CUSTOMER: TE		
SCALE	NTS	MANU:				DATE:		

TOLERANCES UNLESS OTHERWISE STATED
X.= +/-1
.X=+/-0.5
.XX=+/-0.2

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	REVISED	DRAWN	APPROVED
1	AMENDED PACKING QTY AND CARTON SIZE	JACKY 10/08/09	GARY 10/08/09
2	ADDED DATE CODE ON CASE AND DIMENSIONS	JACKY 07/12/09	GARY 07/12/09
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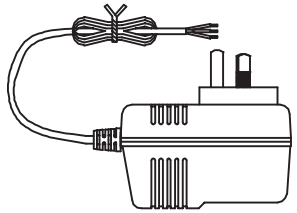
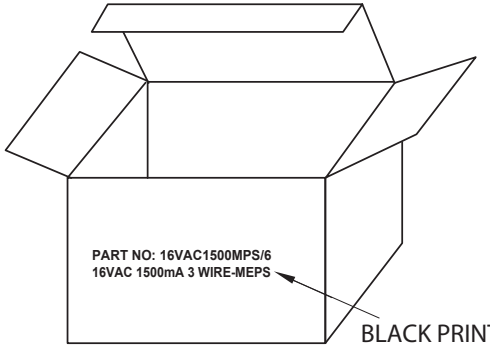
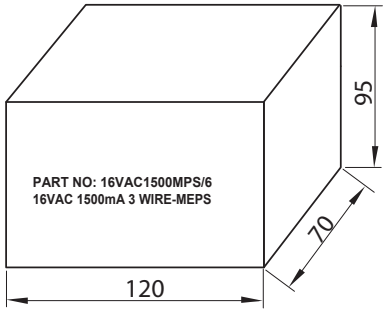
5	CHANGED CROSS-SHAPPED SCREW TO SHAPE ⌶ SCREW ON CASE	MARK 31/08/15	FREDERICK 31/08/15



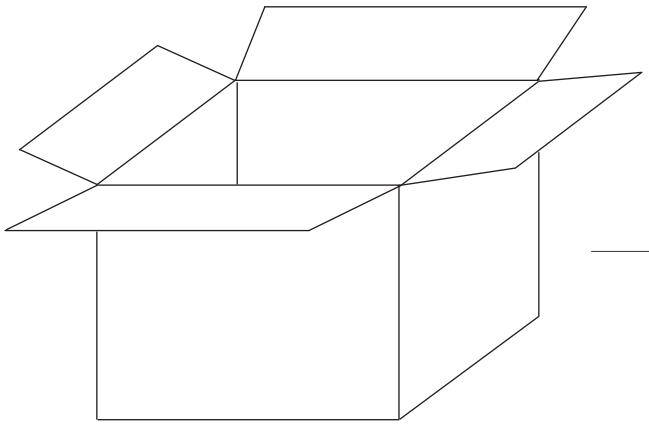
1 PC/WHITE BOX



BLACK PRINTING



20 BOXES/CARTON ①



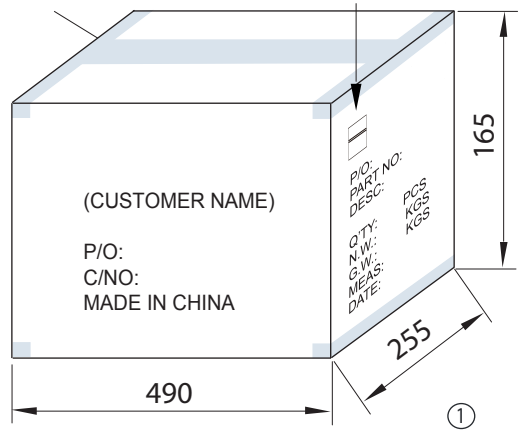
SHIPPING CARTON
PLEASE FOLLOW ORDER TO PRINT SHIPPING MARKS.

RoHS COMPLIANT
PASSED
QC Report No.:
Checked by :
Inspect date :

③

ONLY ONE RoHS+PASSED LABEL ON CARTON
RoHS LABEL(55X25MM)
GREEN GROUNDING YELLOW TEXT
PASSED LABEL(55X36MM)
BLUE GROUNDING WHITE TEXT
WHITE GROUNDING BLUE TEXT

ADHESIVE TAPE



①

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TE DRAWING NO: TE40-0001 R5						PART NO: 16VAC1500MPS/6		
DESCRIPTION: AC ADAPTOR EI-48Q,16VAC1500mA, 3 WIRE - MEPS								
SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09	KG ORDER REF: 0420	SHEET 3 OF 3	*TOLERANCES UNLESS OTHERWISE STATED*
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09	CUSTOMER: TE		*X.= +/-1*
SCALE	NTS	MANU:				DATE:		*.X=+/-0.5*
								.XX=+/-0.2

Specifications TELLC0280

The TELLC0280 is the telephone lead with 606 Socket and 2 Meter length of Telephone Cord.

Colour: Ivory.