



## Specifications PRXMG5050+-V74

The PRXMG5050+-V74 is a Magellan 32-Zone Wireless Transceiver Control Panel.

Features:

- 2 serial outputs master/slave
- M2 two-way FSK hardware ready
- 8 on-board zones (16 with ATZ)
- Built-in transceiver (433 MHz)
- Expandable to 32 zones, 2 partitions, 32 users and 32 remotes
- 4-wire communication bus (connect up to 15 modules)
- Supports IP and cellular IP reporting
- Supports 16 PGMs (any of which can be wireless)
- App-based system control via BlueEye
- In-field firmware upgrade via 307USB And BabyWare remote or local
- Menu-driven programming for the Installer, Master and Maintenance codes
- Multiple telephone numbers for event reporting: 3 monitoring and 5 for Personal Dialing
- Calendar with Daylight savings Time
- StayD Mode
- Sleep arming method
- RF Jamming Supervision
- 512 events buffered.

P ▲ R ▲ D O X™



## Specifications PRX278000033-P2C

The PRX278000033-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")

P ▲ R ▲ D O X™



### **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 protect against tampering (opening door or removal from wall).

**P ▲ R ▲ D O X™**

# **SP5500+ / SP6000+ / SP7000+ User Guide**

**4 to 32-Zone Expandable Security Systems**



**P ▲ R ▲ D O X™**

### Description

The Paradox PMD2P is an analog single-optic PIR motion detector with built-in pet immunity for use with Magellan wireless receivers/transceivers. The PMD2P is immune to animals weighing up to 18kg (40 pounds), and features automatic temperature compensation.

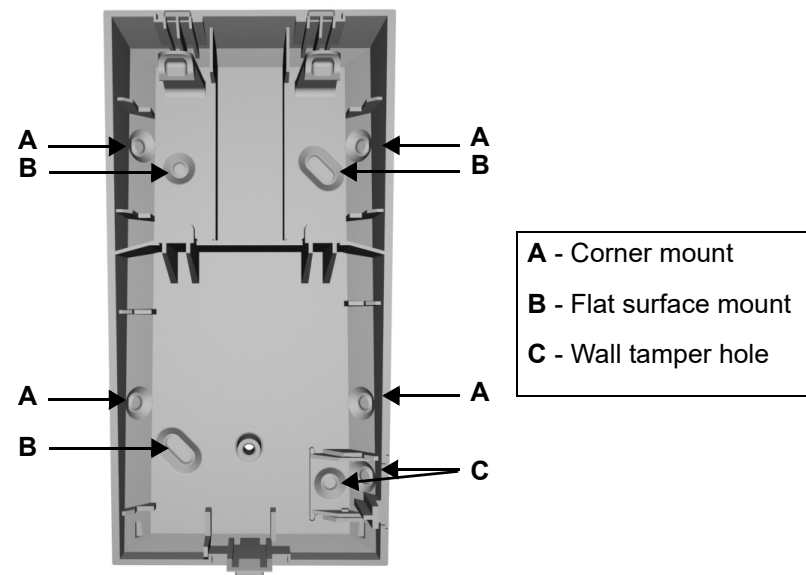
The PMD2P is battery-powered and features an innovative three minute energy save mode (after two detections within a five-minute period). Also, the ALIVE software in the PMD2P ensures that the alarm LED continues to display when it is in energy save mode without compromising battery life.



### Installation

At the installation height of 2.1m (7ft) ±10%, the PMD2P provides full coverage from 1.2m (3.9 ft) to 11m (36 ft). Mounting lower than recommended height will decrease the long range performance; higher will decrease short range performance. Do not obscure the detector, partially nor fully.

**IMPORTANT:** Do not touch the sensor as this could result in malfunction. Clean the sensor surface using a soft cloth with pure alcohol. Also, avoid bending, cutting, or altering the antenna or mounting the detector near metal as this may affect transmission.



### Dual Tamper Mechanism - Wall and Cover

The PMD2P is equipped with dual tamper protection; an alarm is generated if the front cover is removed or if the detector is removed from the wall. In order for the wall tamper removal feature to be functional, a screw needs to be inserted in the wall tamper hole (see PCB Overview at right).

### Powering the Wireless Detector

Verifying proper polarity, insert three “AAA” alkaline batteries into the motion detector’s battery compartment. To replace the batteries, remove the old batteries, then press and release the tamper switch and wait 60 seconds in order to re-initialize the unit. After initialization is complete, insert batteries while verifying proper polarity (verify proper polarity on battery compartment connector as well). **IMPORTANT:** Make sure that when reinstalling the battery compartment that the batteries are facing the back-plate.

### Power-up Sequence

After inserting the batteries, a power-up sequence begins (lasting 10-20 seconds). During this time, the red LED flashes and the detector will not detect an open zone or tamper.

### Signal Strength Test

In order to verify proper signal reception, perform a signal strength test as described in the receiver’s Reference and Installation Manual. Prior to performing the test, ensure the batteries have been installed. Also verify that the motion detector has been assigned to a zone according to the instructions in the receiver’s Reference and Installation Manual. If the transmission is weak, relocating the transmitter by a few inches can greatly improve the reception.

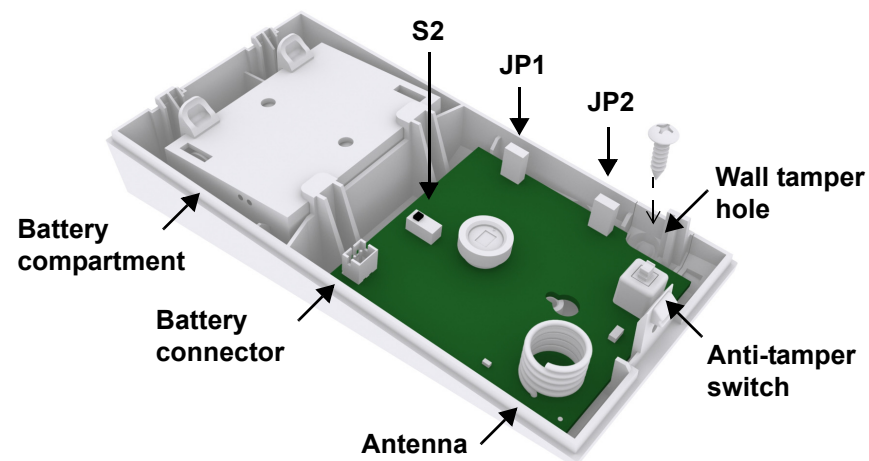
### Detector Settings - Quick View

Sensitivity	
S2 (Slider)	High = High sensitivity ( <b>default</b> )
	Low = Low sensitivity
Fast/Slow Mode	
JP1 (Jumper)	Off = Slow mode
	On = Fast mode ( <b>default</b> )
LED Feedback	
JP2 (Jumper)	Off = Disabled
	On = Enabled ( <b>default</b> )

### Detector Settings - Details

Sensitivity - S2 (Slider)	
High Sensitivity	In high sensitivity mode, you should not be able to cross more than one complete zone (consisting of two beams - left and right sensor elements) in the coverage area with any kind of movement. Use this setting for the majority of installations.
Low Sensitivity	In low sensitivity mode, the amount of movement required to generate an alarm is doubled. The use of low sensitivity mode is recommended in areas where the incidence of false alarms may be greater.
Fast/Slow Mode - JP1 (Jumper)	
Slow Mode	Recommended in areas where the incidence of false alarms may be greater.
Fast Mode	Recommended for the majority of installations.
LED Feedback - JP2 (Jumper)	
Alarm	The red LED will illuminate for a period of 3 seconds whenever the motion detector detects any kind of movement.
Low Battery	The PMD2P performs a battery test every 12 hours. If battery voltage drops below a certain level, the red LED flashes at 8 second intervals and the motion detector will send a low battery signal to the receiver. A trouble is generated and then transmitted to the central monitoring station.
Signal Transmission	The red LED blinks fast when transmitting.

### PCB Overview



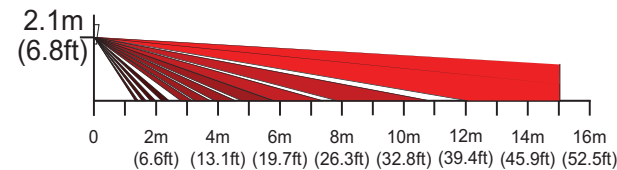
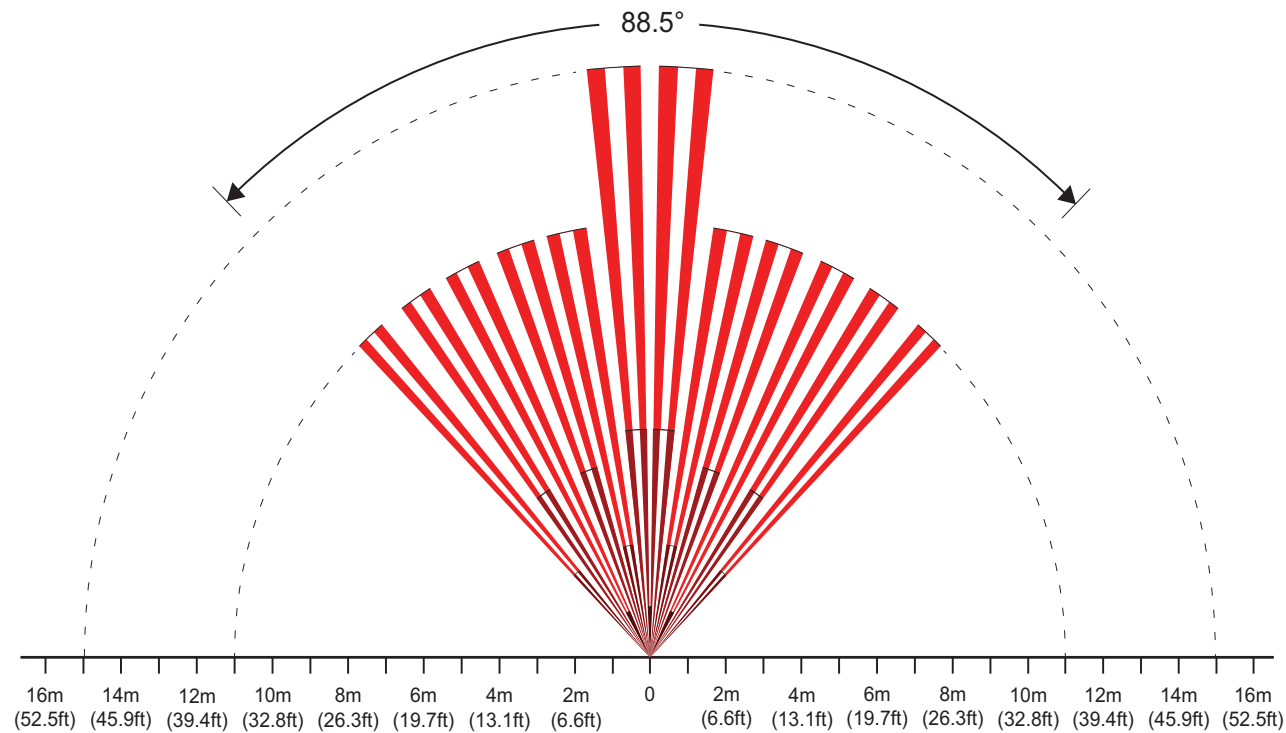
## Alive Software

To conserve the motion detector's battery life, if the motion detector transmits two open zone signals (LED on for 3s) within a five-minute period, the detector will fall into Energy Save Mode for approximately three minutes and will not transmit any alarm signals. The red LED will continue to flash to indicate a detection. If the detector's cover is removed and then replaced while in Energy Save Mode, the first detection will trigger an alarm signal.

## Walk-testing

To activate Walk-test Mode for three minutes, power up the detector or open and close the detector's cover. With sensitivity set to High (S2 = High), at 20°C, crossing more than one complete zone (consisting of two beams left and right sensor detecting elements) with slow/fast walking or running should initiate an alarm. With sensitivity set to Low (S2= Low), the amount of movement required to generate an alarm is doubled.

## Beam Pattern



## Specifications

Sensor Type	Dual rectangular element
Coverage	88.5° - 11m (36ft) x 11m (36ft); Center beams: 15m (49ft)
Pet Immunity	18kg (40lbs)
RF Frequency	433 or 868 MHz with Magellan only
Lens	2nd generation Fresnel lens, LODIFF® segments
Walk Speed	0.2m to 3.5m/s (0.6ft to 11.5ft/s)
Battery Type & Life	3 x 1.5vDC "AAA" alkaline batteries; 2 years*
Current Rating	31uA standby / 15mA alarm
Transmitter Range	35m (115ft) with MG6130 / MG6160 70m (230ft) with MG5000 / MG5050 / RTX3; in a typical residential environment
Operating Temp. & Humidity	0°C to 50°C (32°F to 122°F) / 5 to 90% max.
Functional Temp. & Humidity	0°C to 35°C (32°F to 95°F) recommended / 5 to 90% max.
Dimensions & Weight	6.5 x 12.5 x 5.2cm (2.5 x 4.9 x 2.0 in) / 105 g (3.7 oz) with batteries
RF Immunity	EN 50130-4: 10V/m 80MHz to 2.7GHz
Compatibility	See paradox.com for compatibility details
Certification	EN 50131 Grade 2 Class II; Certification body Intertek
* Battery life expectancy will vary according to the amount of traffic (movement) detected. Higher traffic levels will lower battery life.	

## Warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement which can be found on our website: [paradox.com/terms](http://paradox.com/terms) or contact your local distributor. Specifications may change without prior notice.

## Patents

US, Canadian and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd.





## Specifications DFMSC03/CO/TOP

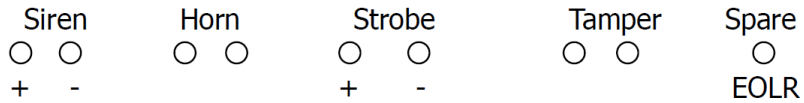
The DFMSC03/CO/TOP is the siren cover kit.

This siren cover kit comes with:

- UV treated plastic cover
- Combo Siren/Horn, 8 $\Omega$ /15W
- LED Strobe (Water-proof), 50mA
- Reed tamper switch
- Top hat piezo, 90mA @ 105dB
- 7-Way terminal block (pre-wired)

Total current draw for DFMSC03/CO/TOP is 590mA.

Operating voltage is 12VDC.





# 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%	
Sulfuric Acid	Distilled Sulfuric 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.	



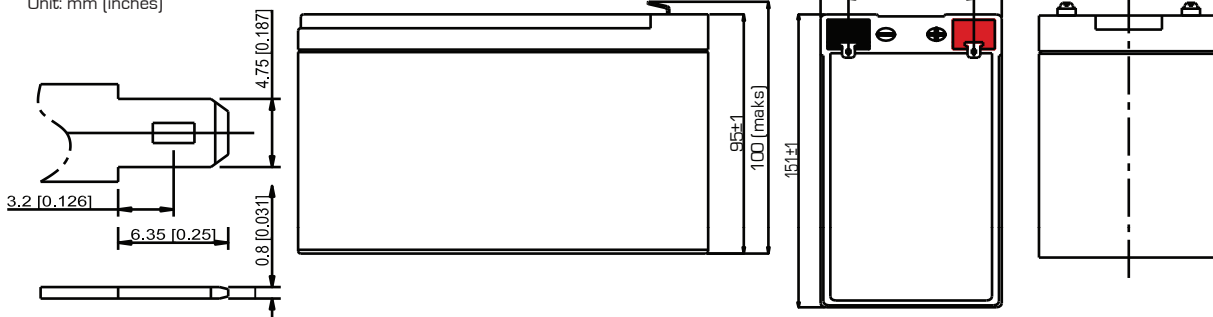
## Applications

- 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)

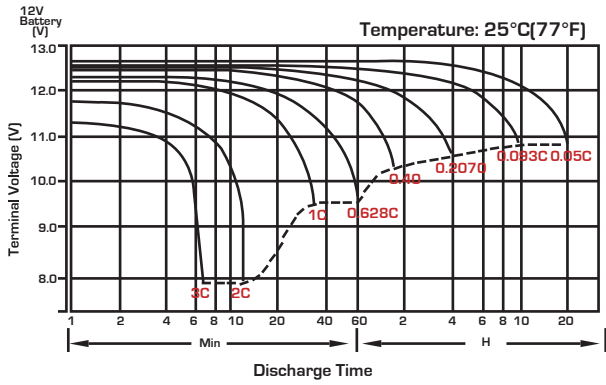
F.V./Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.0	12.8	10.48	8.79	6.53	4.79	3.86	2.29	1.69	1.36	1.14	0.98	0.774	0.640	0.345
1.80V/cell	21.4	14.3	11.4	9.44	6.94	5.05	4.03	2.38	1.74	1.40	1.17	1.01	0.791	0.653	0.350
1.75V/cell	24.2	15.6	12.2	10.0	7.29	5.27	4.18	2.45	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)

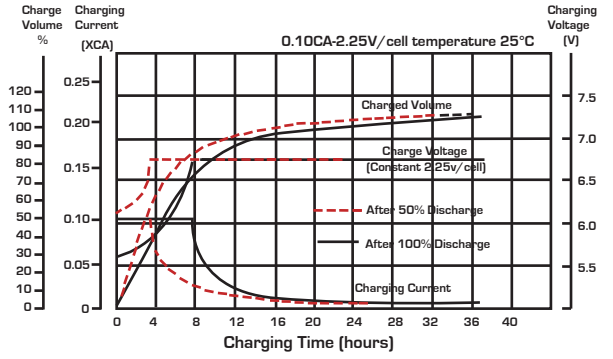
F.V./Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.2	24.5	20.2	17.1	12.8	9.44	7.64	4.56	3.37	2.72	2.29	1.99	1.565	1.296	0.701
1.80V/cell	40.2	27.2	21.9	18.3	13.5	9.91	7.96	4.72	3.47	2.79	2.34	2.03	1.593	1.318	0.708
1.75V/cell	45.1	29.5	23.3	19.3	14.2	10.3	8.23	4.85	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



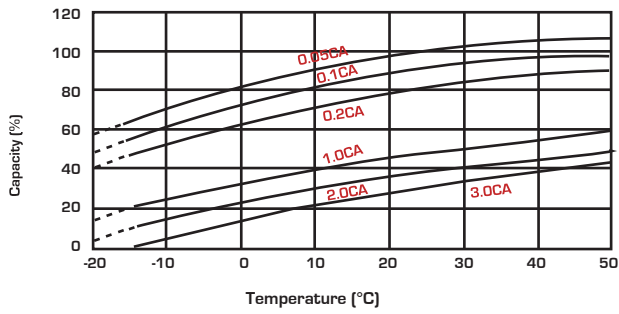
## Discharge Characteristics



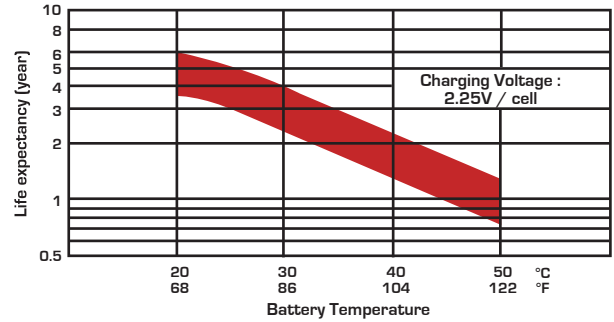
## Float Charging Characteristics



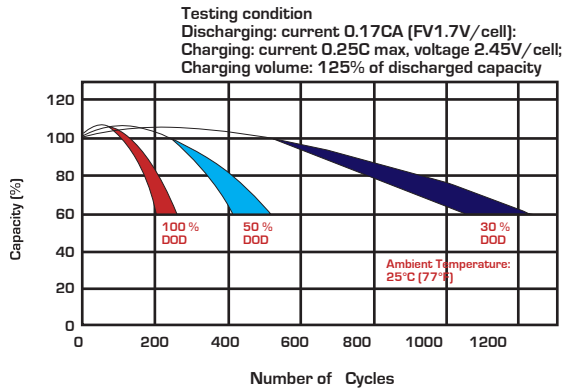
## Temperature Effects in Relation to Battery Capacity



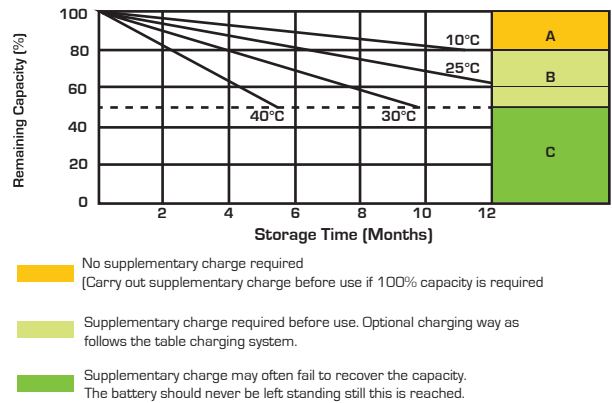
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Charging System

DOD	Current Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	10
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	8
50	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	15
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	12
80	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	16
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	14
100	0.15C <sub>10</sub>	13.5-13.8 vpc (12V)	20
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	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



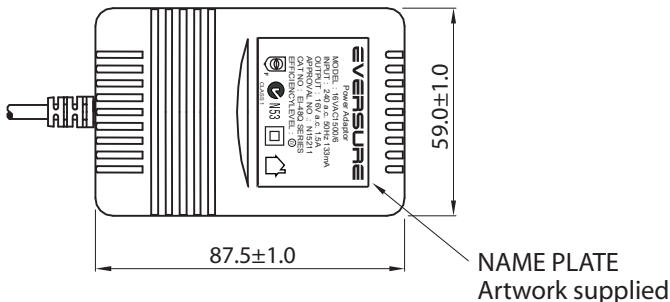
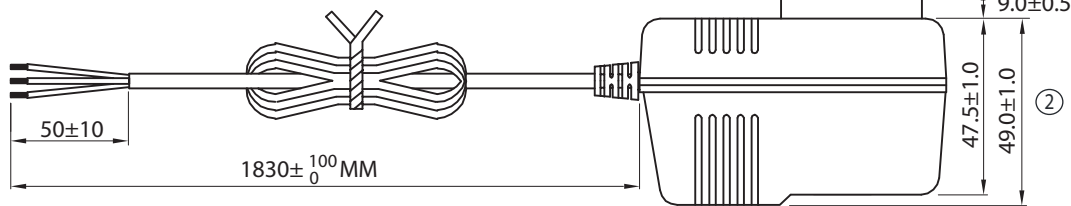
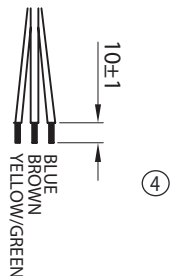
Sealed Performance Batteries

Domestic Sales | Ph: +61 (0)7 3386 1102 | Fax: +61 (0)7 3102 9913

sales@spb.net.au | [www.sealedperformance.com.au](http://www.sealedperformance.com.au)

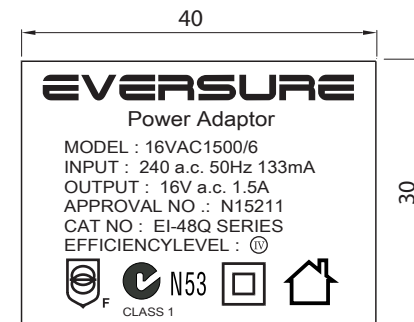
National Warehouse | 1 Ant Road | Yatala, Brisbane QLD 4207

Melbourne Office | 2/9 Compark Circuit | Mulgrave, Melbourne 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-SHAPED 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		ORDER REF:	0420	SHEET 1 OF 3	TOLERANCES UNLESS OTHERWISE STATED X.= +/- .X.= +/-0.5 .XX.= +/-0.2
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09		CUSTOMER: TE			
SCALE	NTS	MANU:				DATE:				



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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°C max. For input coil (By resistance method) and 55°C 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
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TE DRAWING NO: TE40-0001 R5


PART NO: 16VAC1500MPS/6

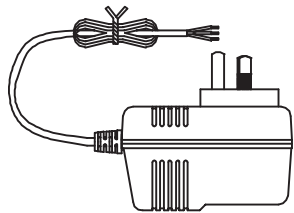
DESCRIPTION: AC ADAPTOR EI-48Q,16VAC1500mA, 3 WIRE - MEPS



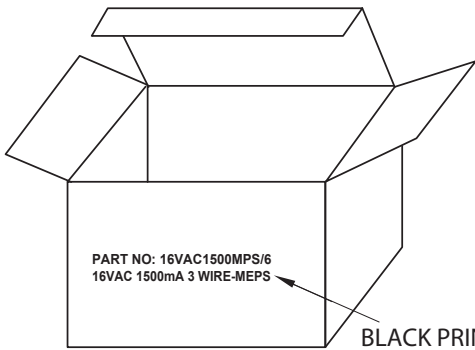
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SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09		ORDER REF:	0420	SHEET 2 OF 3	TOLERANCES UNLESS OTHERWISE STATED X.= +/- .X= +/-0.5 .XX= +/-0.2
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09		CUSTOMER:	TE		
SCALE	NTS	MANU:				DATE:				

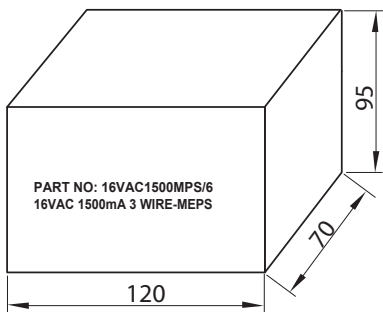
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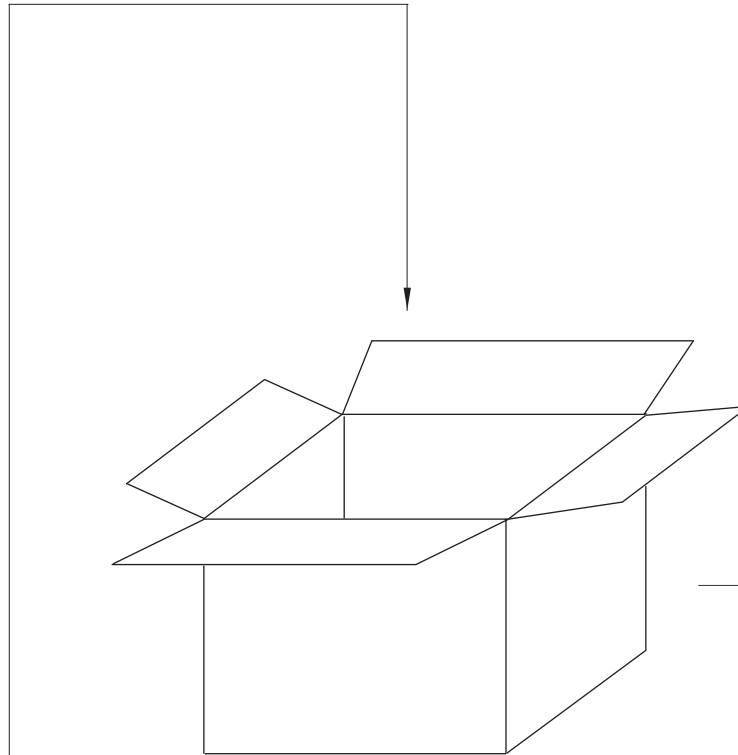
1 PC/WHITE BOX



BLACK PRINTING

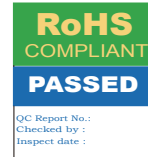
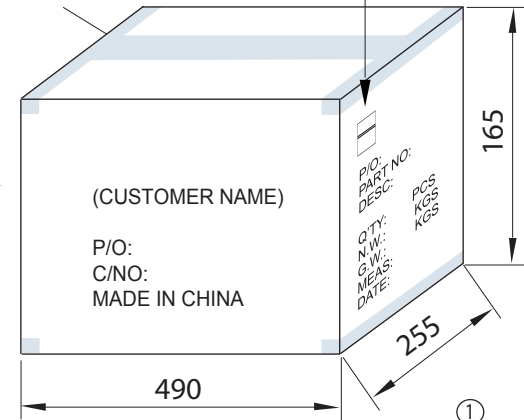


20 BOXES/CARTON ①



SHIPPING CARTON  
PLEASE FOLLOW ORDER TO PRINT SHIPPING MARKS.

ADHESIVE TAPE



③

ONLY ONE RoHS+PASSED LABEL ON CARTON  
RoHS LABEL(5X25MM)  
GREEN GROUNDING YELLOW TEXT  
PASSED LABEL(5X36MM)  
BLUE GROUNDING WHITE TEXT  
WHITE GROUNDING BLUE TEXT

①


TE DRAWING NO: TE40-0001 R5

PART NO: 16VAC1500MPS/6

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



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SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09		ORDER REF:	0420	SHEET 3 OF 3	TOLERANCES UNLESS OTHERWISE STATED X.= +/-1 .X.= +/-0.5 .XX.= +/-0.2
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09		CUSTOMER:	TE		
SCALE	NTS	MANU:					DATE:			



### **Specifications TELLC0280**

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

Colour: Ivory.

