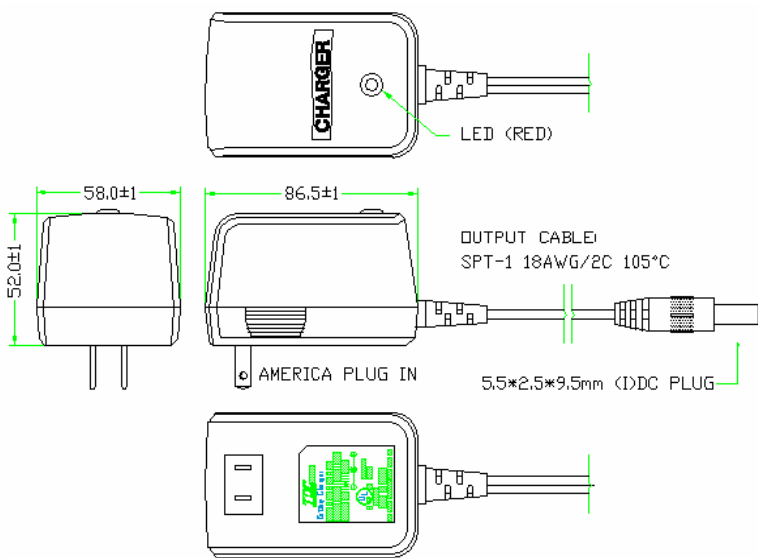


**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>12</b>	W
Exciting Current With No load	<b>50</b>	mA Max
Exciting Current With Full load	<b>100</b>	mA Max
Output Voltage (DC)	<b>6.0</b>	VoltDC±5%
Output Current (O/P 6.0VDC)	<b>0.6</b>	Amp±5%
Output Voltage No-load (DC)	<b>7.5</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>0.5</b>	m A
Test Time	<b>1</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging	<b>10~20</b>	Hr

Battery/Ahr	Times/Hours
<b>4</b>	<b>11</b>
<b>7</b>	<b>20</b>

**LED INDICATE**

Circuit Type	No Load	Charging	Full Charge
A	LED OFF	LDE ON	LED OFF
B	LED ON	LED OFF	LED ON
C	LED GREEN	LED RED	LED GREEN
D	LED OFF	LED RED	LED GREEN
E	LED OFF	LED ON	LED FLASH
F	LED OFF	LED FLASH	LED ON

**MECHANICAL SPECIFICATION**

Dimensions (L*W*H)	<b>86.5*58.0*52.0</b>	mm
Weight	<b>430</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C

Output Cable: **SPT-1 18AWG/2C 105 °C**  
**1.8M LENGTH+5.5\*2.5\*9.5 (I) DC**

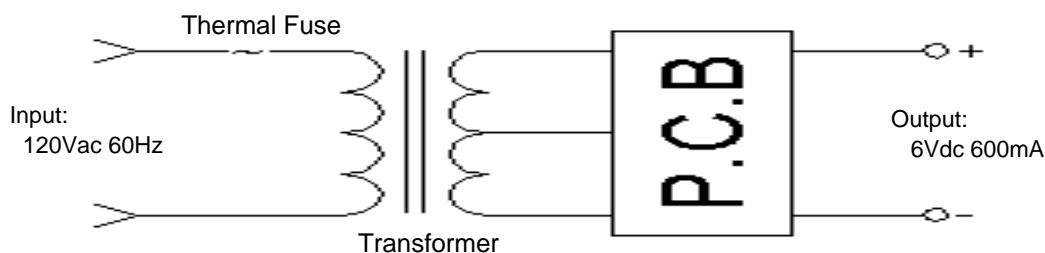
Protected Against Short-Circuit @

Protected Against Polarity Inversion @

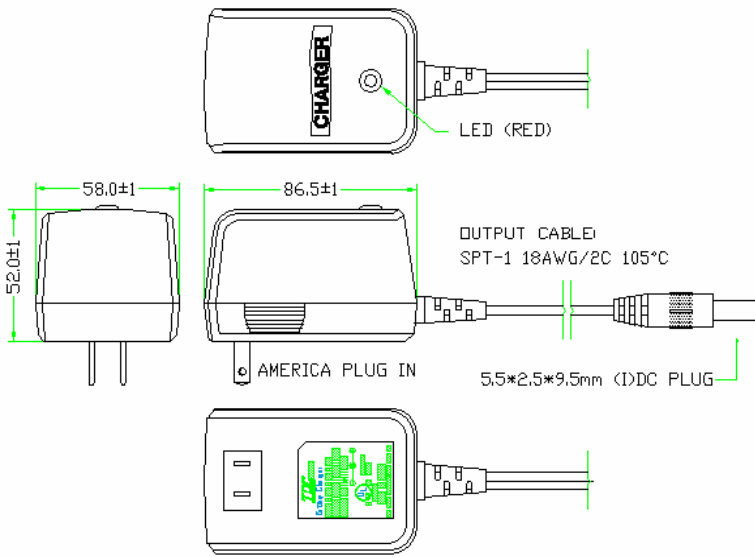
Relative Temperature 40°C±2°C

**RELATIVE HUMIDITY 90% RH**

**ELECTRICAL CIRCUIT:**



**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>12</b>	W
Exciting Current With No load	<b>50</b>	mA Max
Exciting Current With Full load	<b>100</b>	mA Max
Output Voltage (DC)	<b>9.0</b>	VoltDC±5%
Output Current (O/P 9.0VDC)	<b>0.3</b>	Amp±5%
Output Voltage No-load (DC)	<b>10.5</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>0.5</b>	m A
Test Time	<b>1</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging	<b>10~20</b>	Hr

Battery/Ahr	Times/Hours
<b>4</b>	<b>11</b>
<b>7</b>	<b>20</b>

**LED INDICATE**

Circuit Type	No Load	Charging	Full Charge
A	LED OFF	LDE ON	LED OFF
B	LED ON	LED OFF	LED ON
C	LED GREEN	LED RED	LED GREEN
D	LED OFF	LED RED	LED GREEN
E	LED OFF	LED ON	LED FLASH
F	LED OFF	LED FLASH	LED ON

**MECHANICAL SPECIFICATION**

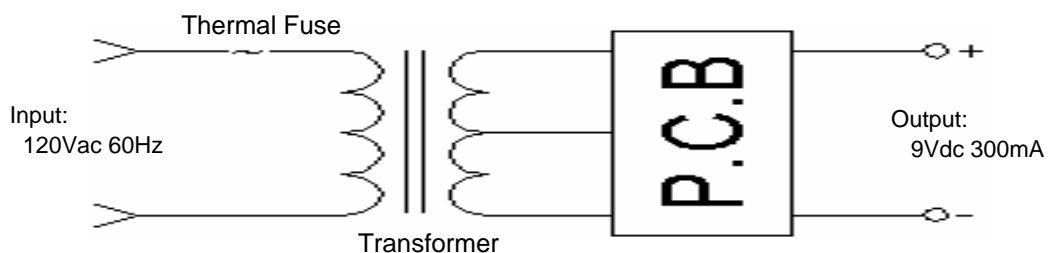
Dimensions (L*W*H)	<b>86.5*58.0*52.0</b>	mm
Weight	<b>430</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C
Relative Temperature	<b>40°C±2°C</b>	
<b>RELATIVE HUMIDITY</b>		<b>90% RH</b>

Output Cable: **SPT-1 18AWG/2C 105 °C**  
**1.8M LENGTH+5.5\*2.5\*9.5 (I) DC**

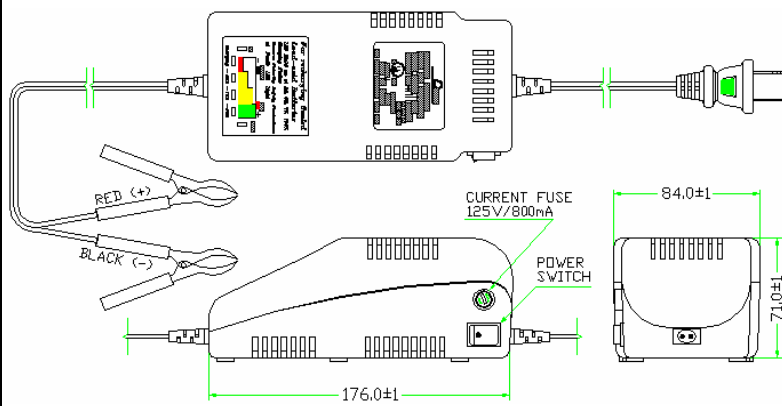
Protected Against Short-Circuit @

Protected Against Polarity Inversion @

**ELECTRICAL CIRCUIT:**



**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>85</b>	W
Exciting Current With No load	<b>120</b>	mA Max
Exciting Current With Full load	<b>700</b>	mA Max
Output Voltage	<b>12.0</b>	Volts ±5%
Output Current (O/P 12.0V)	<b>4.0</b>	Amp
Output Voltage Stand By Voltage	<b>14.4~15.0</b>	Volts
HI-POT :		
Leakage Current	<b>0.5</b>	m A
Test Time	<b>1</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Efficiency	<b>80</b>	%
Insulation Class	<b>B (130)</b>	°C
Standard Charging	<b>10~20</b>	Hr

**LED INDICATE**

LED (GREEN)	<b>POWER ON</b>
LED (RED)	<b>CHARGING</b>
LED (YELLOW)	<b>50%</b>
LED (YELLOW)	<b>75%</b>
LED (GREEN)	<b>FULL CHARGING</b>
LED (RED)	<b>FAULT</b>
Protected Against Short-Circuit	@
Protected Against Polarity Inversion	@

**BATTERY / AH**

**TIMES / HOURS**

**35**

**12**

**75**

**26**

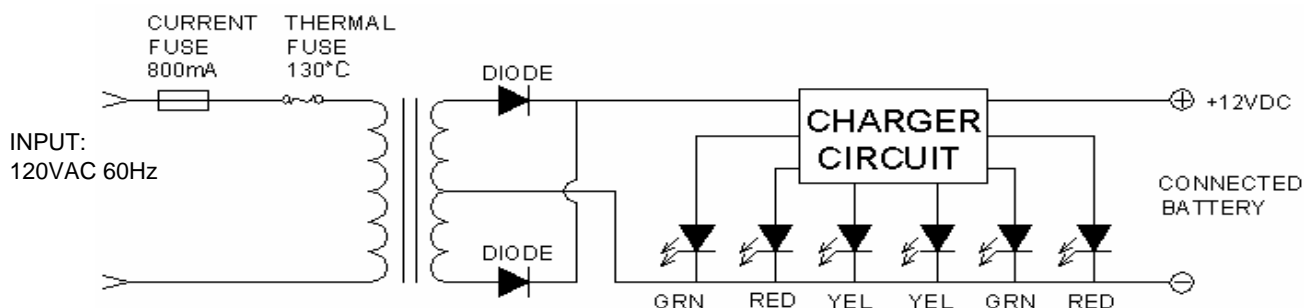
Input Cable: **SPT-2 18AWG/2C 105 °C 1.8M +AMERICA PLUG**

Output Cable: **SPT-2 18AWG/2C 105 °C 1.8M LENGTH+30A BATTERY CLIP.**

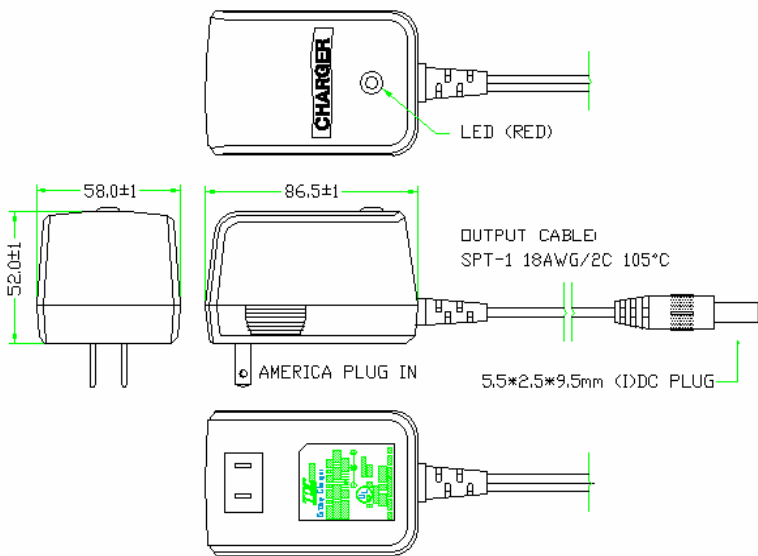
**MECHANICAL SPECIFICATION**

Dimensions (L*W*H)	<b>176.0*84.0*71.0</b>	mm
Weight	<b>1800</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C
Relative Temperature	<b>40±2</b>	°C
<b>RELATIVE HUMIDITY</b>	<b>90% RH</b>	

**ELECTRICAL CIRCUIT**



**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>15</b>	W
Exciting Current With No load	<b>50</b>	mA Max
Exciting Current With Full load	<b>130</b>	mA Max
Output Voltage (DC)	<b>12.0</b>	VoltDC±5%
Output Current (O/P 12.0VDC)	<b>0.25</b>	Amp±5%
Output Voltage No-load (DC)	<b>14.8</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>0.5</b>	m A
Test Time	<b>1</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging	<b>10~20</b>	Hr

Battery/Ahr	Times/Hours
<b>4</b>	<b>11</b>
<b>7</b>	<b>20</b>

**LED INDICATE**

Circuit Type	No Load	Charging	Full Charge
A	LED OFF	LDE ON	LED OFF
B	LED ON	LED OFF	LED ON
C	LED GREEN	LED RED	LED GREEN
D	LED OFF	LED RED	LED GREEN
E	LED OFF	LED ON	LED FLASH
F	LED OFF	LED FLASH	LED ON

**MECHANICAL SPECIFICATION**

Dimensions (L*W*H)	<b>86.5*58.0*52.0</b>	mm
Weight	<b>430</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C

Output Cable: **SPT-1 18AWG/2C 105 °C**  
**1.8M LENGTH+5.5\*2.5\*9.5 (I) DC**

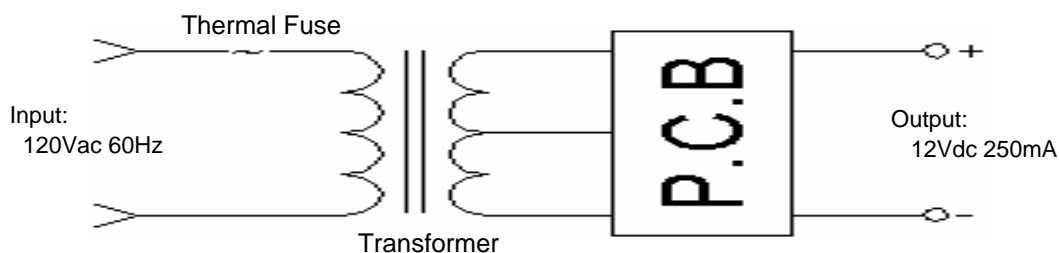
Protected Against Short-Circuit @

Protected Against Polarity Inversion @

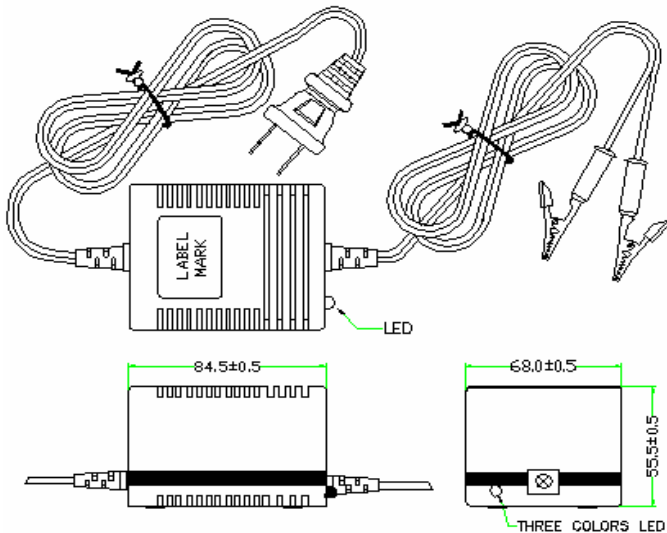
Relative Temperature 40°C±2°C

**RELATIVE HUMIDITY 90% RH**

**ELECTRICAL CIRCUIT:**



**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>18</b>	W
Exciting Current With No load	<b>60</b>	mA Max
Exciting Current With Full load	<b>160</b>	mA Max
Output Voltage (DC)	<b>12.0</b>	VoltDC±5%
Output Current (O/P 10.0VDC)	<b>0.6</b>	Amp±5%
Output Voltage No-load (DC)	<b>14.8</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>0.5</b>	m A
Test Time	<b>1</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging (Hr)	<b>10~20</b>	Hr
Standard Battery Capacity	<b>9~21</b>	Ahrs

Battery/Ahr	Times/Hours
<b>5</b>	<b>12</b>
<b>9</b>	<b>21</b>

**LED INDICATE**

Circuit Type	No Load	Charging	Full Charge
A	LED OFF	LDE ON	LED OFF
B	LED ON	LED OFF	LED ON
C	LED GREEN	LED RED	LED GREEN
D	LED OFF	LED RED	LED GREEN
E	LED OFF	LED ON	LED FLASH
F	LED OFF	LED FLASH	LED ON

**MECHANICAL SPECIFICATION**

Dimensions (L*W*H)	<b>84.5*68.0*55.5</b>	mm
Weight	<b>750</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C
Relative Temperature	40°C±2°C	
<b>RELATIVE HUMIDITY</b>	<b>90% RH</b>	

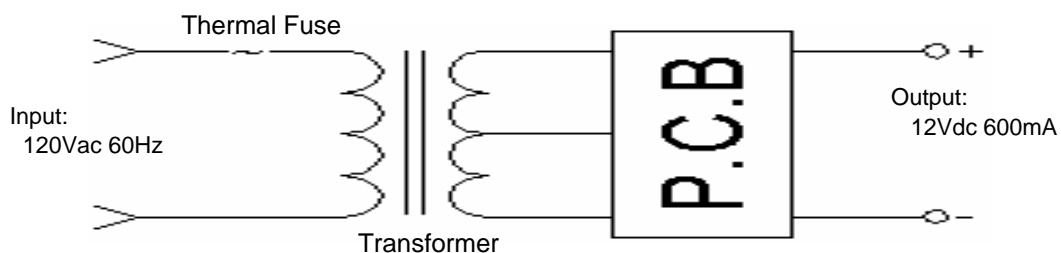
Output Cable: **SPT-2#18/2C 105 °C 2.0M LENGTH +AMERICA PLUG(2PIN)**

Output Cable: **SPT-1 18AWG 105 °C 1.8M LENGTH (1209) ALLIGATOR CLAMP**

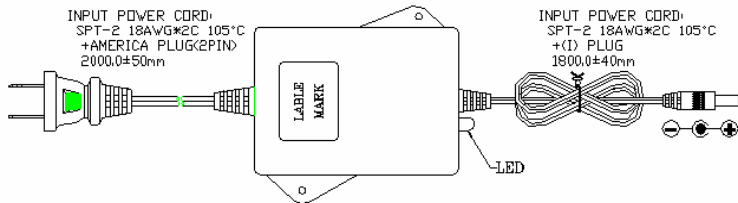
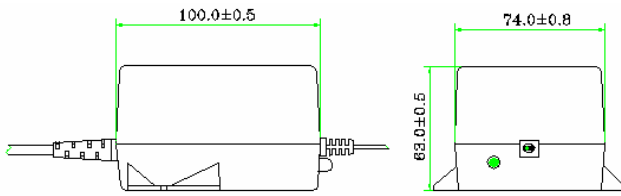
Protected Against Short-Circuit @

Protected Against Polarity Inversion @

**ELECTRICAL CIRCUIT:**



**ELECTRICAL & MECHANICAL SPECIFICATION**



**ELECTRONICAL SPECIFICATION**

Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>70</b>	W
Exciting Current With No load	<b>40</b>	mA Max
Exciting Current With Full load	<b>380</b>	mA Max
Output Voltage	<b>24.0</b>	VoltDC±5%
Output Current (O/P 12.0VDC)	<b>0.8</b>	Amp±5%
Output Voltage Stand By Charging	<b>27.0</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>1</b>	m A
Test Time	<b>0.5</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging (Hr)	<b>10-20</b>	Hr
Standard Battery Capacity	<b>6-12</b>	Ahrs

**LED INDICATE**

LED (RED)	<b>CHARGERING</b>
LED (GREEN)	<b>FULL</b>

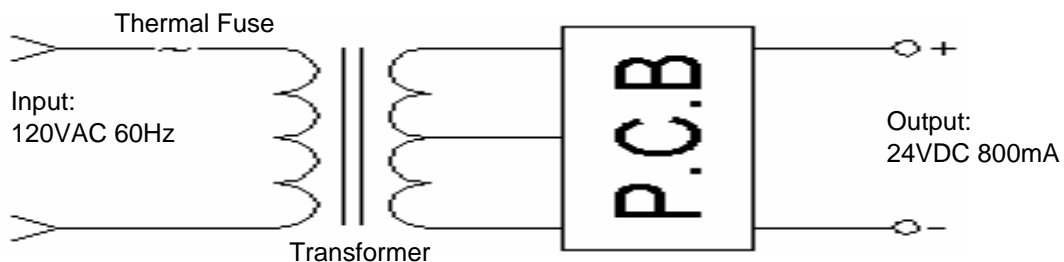
Protected Against Short-Circuit	@
Protected Against Polarity Inversion	@

**MECHANICAL SPECIFICATION**

Dimensions (L*W*H)	<b>100.0*74.0*63.0</b>	mm
Weight	<b>980</b>	g
Environment:		
Operating Temperature	<b>-10 To 40</b>	°C
Storage Temperature	<b>-20 To 70</b>	°C
Relative Temperature 40°C±2°C		
<b>RELATIVE HUMIDITY</b>	<b>90% RH</b>	

BATTERY / AH	TIMES / HOURS
5	12
6	12
Input Cable:	<b>SPT-2#18/2C 105 °C 2.0M LENGTH +AMERICA PLUG(2PIN)</b>
Output Cable:	<b>SPT-1#18/2C 105 °C 1.8M LENGTH 5.5*2.1*10mm (I) DC PLUG</b>

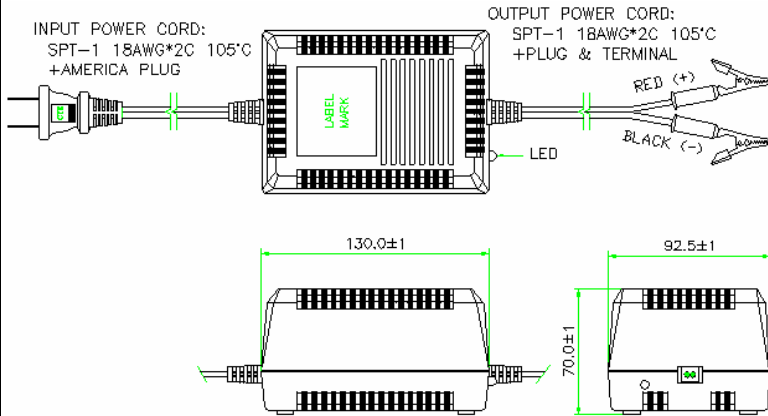
**ELECTRICAL CIRCUIT**



**TBCA-66-121501**

INPUT VOLTAGE: **120VAC**  
OUTPUT VOLTAGE: **12 VDC**

**ELECTRICAL & MECHANICAL SPECIFICATION**



ELECTRONICAL SPECIFICATION		
Input Voltage	<b>120</b>	Volts
Frequency (Hz)	<b>60</b>	Hz
Power Rated (W)	<b>50</b>	W
Exciting Current With No load	<b>60</b>	mA Max
Exciting Current With Full load	<b>350</b>	mA Max
Output Voltage	<b>12.0</b>	VoltDC±5%
Output Current (O/P 12.0VDC)	<b>1.5</b>	Amp±5%
Output Voltage Stand By Charging	<b>15.0</b>	VoltsDC±5%
HI-POT :		
Leakage Current	<b>1</b>	m A
Test Time	<b>0.5</b>	Min
PRI TO SEC	<b>1250</b>	Volts
PRI TO CORE	<b>1250</b>	Volts
SEC TO CORE	<b>1250</b>	Volts
Insulation Class	<b>B (130)</b>	°C
Standard Charging (Hr)	<b>10~20</b>	Hr
Standard Battery Capacity	<b>16~17</b>	Ahrs

LED INDICATE	
LED (RED)	<b>CHARGING</b>
LED (GREEN)	<b>FULL</b>
Protected Against Short-Circuit	@
Protected Against Polarity Inversion	@

BATTERY / AH	TIMES / HOURS
<b>10</b>	<b>9</b>
<b>17</b>	<b>16</b>
Input Cable:	<b>SPT-1 #18/2C 105 °C 2.0M LENGTH +AMERICA PLUG(2PIN)</b>
Output Cable:	<b>SPT-1 #18/2C 105 °C 1.8M LENGTH +ALLIGATOR CLIP</b>

MECHANICAL SPECIFICATION	
Dimensions (L*W*H)	<b>130.0*92.5*70.0</b> mm
Weight	<b>1280</b> g
Environment:	
Operating Temperature	<b>-10 To 40</b> °C
Storage Temperature	<b>-20 To 70</b> °C
Relative Temperature	<b>40°C±2°C</b>
RELATIVE HUMIDITY	<b>90% RH</b>

