### Interchangeable plug

### 10W series Medical power supply



#### **♦** Feature

- Universal Input Switch Mode Power Supplies
- No load power consumption <0.3 Watt</li>
- Meet energy star CEC, EUPS, MEPS level (IV) & (V)
- Protection: over voltage, over current, short circuit
- High Efficiency and Reliability
- Range output 3VDC~24VDC
- Comply to UL, CSA, GS/TUV, CE

## Specification

Specii	ication						
Input	Voltage range	90~264Vac					
	Frequency range	47~63Hz					
	AC current	0.3A Max. @ 230Vac					
	Inrush current (max.)	30Amax. @ 230Vac, cold start					
	Leakage current(max.)	0.25mA @120Vac,60Hz / 0.45mA @ 230Vac,50Hz					
Protection	Over load	>105% rate output voltage power					
		Hiccup mode, Recovery automatically					
ote	Short circuit	Power shutdown					
Pro		Auto recovery after fault condition is removed					
Environment	Operating Temp.	0~40℃					
	Relative Humidity	20%~90%, non-condensing					
	Storage Temp. / Humidi	dit -20℃~85℃, 10%~95% RH					
<u> </u>	Vibration	19.6m/s <sup>2</sup> 10-55Hz, 3minutes period,60minutes each along X,Y and Z axis (Non op					
Ш	IMPACT	196.1m/s² 11ms, once each X,Y and Z azis (Non operating)					
	Safety Standard	EN60601-1, IEC60601-1					
× ()	Withstand voltage	I/P-O/P:3KVac, 1 minute					
[et]	Isolation resistance	I/P-O/P: 100M ohms/500Vdc/25°C/70%RH					
Safety & EMC	Conducted / Radiated	EN55022 , FCC part 15 Class B					
-	Harmonic	EN61000-3-2					
ers	MTBF	100,000 hours min. @25°C, 80% of full load. (MIL-HDBK-217F)					
Others	Dimension	62.6mm *41.6mm *26.3mm					
Note	1.All parameters are specified at 230Vac input, rated load,25℃ 70% RH ambient;						
	2.DC voltage: the output voltage set at point measure by plug terminal & 100% load;						
	3.Ripple & Niose are measured at 20Mhz with a 0.1uf & 47uf capacitor						
	4. Tolerance: includes set up tolerance, line regulation, load regulation,						
	5.Line regulation is measured from low line to high line at rated load,						
	6.Load regulation is measured from 0%~100% at rated load						
	7.Efficency is measured at 110Vac or 230Vac.						
J	- L						

Safty mark

















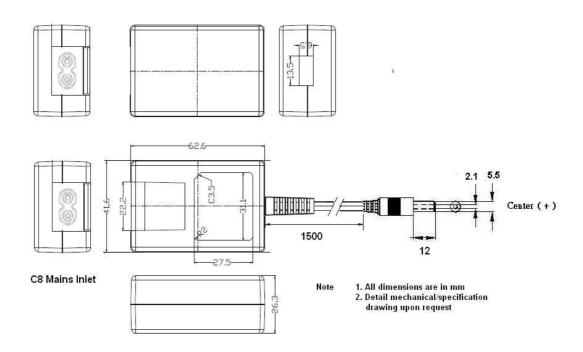


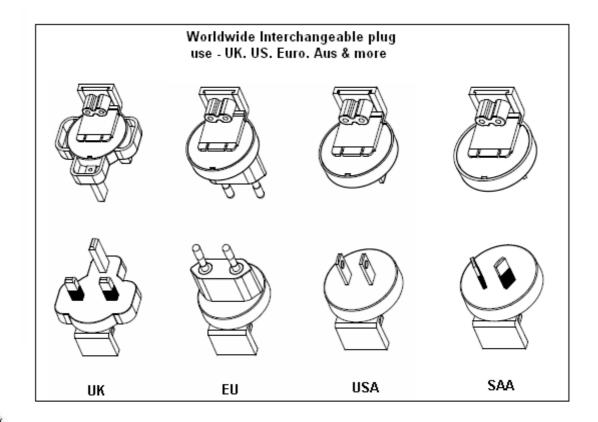


Output

MODEL LIST   DC Voltage   Current range (mA)   SPA030yyyy    3.0V   100 to 2000   19%   ±1%   ±5%   ±5%   ±5%   ±5%   SPA040yyyy    4.0V   100 to 2000   19%   ±1%   ±5%   ±5%   ±5%   SPA040yyyy    4.5V   100 to 2000   19%   ±1%   ±5%   ±5%   ±5%   SPA045yyyy    5.0V   100 to 2000   19%   ±1%   ±5%   ±5%   ±5%   SPA055yyyy    5.5V   100 to 1800   19%   ±1%   ±5%   ±5%   ±5%   SPA055yyyy    6.5V   100 to 1500   19%   ±1%   ±5%   ±5%   ±5%   SPA065yyyy    6.5V   100 to 1500   19%   ±1%   ±5%   ±5%   ±5%   SPA070yyyy    7.0V   100 to 1400   19%   ±1%   ±5%   ±5%   ±5%   SPA070yyyy    8.0V   100 to 1200   19%   ±1%   ±5%   ±5%   ±5%   SPA085yyyy    8.5V   100 to 1200   19%   ±1%   ±5%   ±5%   ±5%   SPA085yyyy    8.5V   100 to 1000   19%   ±1%   ±5%   ±5%   ±5%   SPA085yyyy    8.5V   100 to 1000   19%   ±1%   ±5%   ±5%   ±5%   SPA085yyyy    12.5V   100 to 800   19%   ±1%   ±5%   ±5%   ±5%   SPA120yyyy    12.5V   100 to 800   19%   ±1%   ±5%   ±5%   ±5%   SPA135yyyy    13.0V   100 to 750   19%   ±1%   ±5%   ±5%   ±5%   SPA145yyyy    14.6V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA145yyyy    14.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    14.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 500   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA15yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA25yyyy    15.5V   100 to 600   19%   ±1%   ±5%   ±5%   ±5%   SPA25yyyy    15.5V   100 to 600	Output						
SPA035yyyyl     3.5V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA045yyyyl     4.0V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA045yyyyl     4.5V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA055yyyyl     5.0V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA065yyyyl     5.5V     100     to 1800     1%     ±1%     ±5%     ±5%       SPA065yyyyl     6.0V     100     to 1500     1%     ±1%     ±5%     ±5%       SPA065yyyyl     6.5V     100     to 1400     1%     ±1%     ±5%     ±5%       SPA085yyyyl     7.5V     100     to 1300     1%     ±1%     ±5%     ±5%       SPA080yyyyl     8.0V     100     to 1100     1%     ±1%     ±5%     ±5%       SPA080yyyyl     8.0V     100     to 1000     1%     ±1%     ±5%     ±5%       SPA080yyyyl     12.0	MODEL LIST	DC Voltage		Ripple & Noise			Voltage tolerance
SPA040yyyy	SPA030yyyyl	3.0V	100 to 2000	1%	±1%	±5%	±5%
SPA045yyyyl     4.5V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA050yyyyl     5.0V     100     to 2000     1%     ±1%     ±5%     ±5%       SPA050yyyyl     5.0V     100     to 1800     1%     ±1%     ±5%     ±5%       SPA060yyyyl     6.0V     100     to 1600     1%     ±1%     ±5%     ±5%       SPA070yyyyl     6.0V     100     to 1500     1%     ±1%     ±5%     ±5%       SPA070yyyyl     7.0V     100     to 1300     1%     ±1%     ±5%     ±5%       SPA075yyyyl     7.5V     100     to 1300     1%     ±1%     ±5%     ±5%       SPA085yyyyl     8.0V     100     to 1200     1%     ±1%     ±5%     ±5%       SPA085yyyyl     8.5V     100     to 1100     1%     ±1%     ±5%     ±5%       SPA099yyyl     9.0V     100     to 830     1%     ±1%     ±5%     ±5%       SPA15yyyyl     12.5V </td <td>SPA035yyyyl</td> <td>3.5V</td> <td>100 to 2000</td> <td>1%</td> <td>±1%</td> <td>±5%</td> <td>±5%</td>	SPA035yyyyl	3.5V	100 to 2000	1%	±1%	±5%	±5%
SPA050yyyy    5.0V   100 to   2000   1%	SPA040yyyyl	4.0V	100 to 2000	1%	±1%	±5%	±5%
SPA055yyyyl	SPA045yyyyl	4.5V	100 to 2000	1%	±1%	±5%	±5%
SPA060yyyy    6.0V   100 to 1600   1%	SPA050yyyyl	5.0V	100 to 2000	1%	±1%	±5%	±5%
SPA055yyyr    6.5V   100 to   1500   1%	SPA055yyyyl	5.5V	100 to 1800	1%	±1%	±5%	±5%
SPA070yyyy    7.0V   100 to 1400   1%	SPA060yyyyl	6.0V	100 to 1600	1%	±1%	±5%	±5%
SPA075yyyy  7.5V	SPA065yyyyl	6.5V	100 to 1500	1%	±1%	±5%	±5%
SPA080yyyl     8.0V     100     to     1200     1%     ±1%     ±5%     ±5%       SPA085yyyl     8.5V     100     to     1100     1%     ±1%     ±5%     ±5%       SPA090yyyl     9.0V     100     to     1000     1%     ±1%     ±5%     ±5%       SPA120yyyl     12.0V     100     to     830     1%     ±1%     ±5%     ±5%       SPA125yyyl     12.5V     100     to     800     1%     ±1%     ±5%     ±5%       SPA130yyyl     13.0V     100     to     730     1%     ±1%     ±5%     ±5%       SPA1450yyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA1450yyyl     14.5V     100     to     680     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.5V     100     to     660     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.0V     100     to	SPA070yyyyl	7.0V	100 to 1400	1%	±1%	±5%	±5%
SPA085yyyyl     8.5V     100     to     1100     1%     ±1%     ±5%     ±5%       SPA090yyyl     9.0V     100     to     1000     1%     ±1%     ±5%     ±5%       SPA120yyyl     12.0V     100     to     830     1%     ±1%     ±5%     ±5%       SPA125yyyyl     12.5V     100     to     800     1%     ±1%     ±5%     ±5%       SPA135yyyl     13.0V     100     to     750     1%     ±1%     ±5%     ±5%       SPA1440yyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA145yyyl     14.5V     100     to     660     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.5V     100     to     660     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.0V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.5V     100     to	SPA075yyyyl	7.5V	100 to 1300	1%	±1%	±5%	±5%
SPA090yyyl     9.0V     100     to     1000     1%     ±1%     ±5%     ±5%       SPA120yyyl     12.0V     100     to     830     1%     ±1%     ±5%     ±5%       SPA125yyyyl     12.5V     100     to     800     1%     ±1%     ±5%     ±5%       SPA130yyyl     13.0V     100     to     750     1%     ±1%     ±5%     ±5%       SPA135yyyyl     13.5V     100     to     730     1%     ±1%     ±5%     ±5%       SPA140yyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA145yyyl     14.5V     100     to     680     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.0V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.5V     100     to	SPA080yyyyl	8.0V	100 to 1200	1%	±1%	±5%	±5%
SPA120yyyyl     12.0V     100     to     830     1%     ±1%     ±5%     ±5%       SPA125yyyyl     12.5V     100     to     800     1%     ±1%     ±5%     ±5%       SPA130yyyl     13.0V     100     to     750     1%     ±1%     ±5%     ±5%       SPA135yyyyl     13.5V     100     to     730     1%     ±1%     ±5%     ±5%       SPA140yyyyl     14.6V     100     to     700     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.0V     100     to     600     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA160yyyl     17.5V     100     to	SPA085yyyyl	8.5V	100 to 1100	1%	±1%	±5%	±5%
SPA125yyyyl     12.5V     100     to     800     1%     ±1%     ±5%     ±5%       SPA130yyyl     13.0V     100     to     750     1%     ±1%     ±5%     ±5%       SPA135yyyyl     13.5V     100     to     730     1%     ±1%     ±5%     ±5%       SPA140yyyyl     14.0V     100     to     680     1%     ±1%     ±5%     ±5%       SPA145yyyyl     14.5V     100     to     660     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.0V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyl     17.5V     100     to	SPA090yyyyl	9.0V	100 to 1000	1%	±1%	±5%	±5%
SPA130yyyl     13.0V     100     to     750     1%     ±1%     ±5%     ±5%       SPA135yyyyl     13.5V     100     to     730     1%     ±1%     ±5%     ±5%       SPA140yyyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA145yyyyl     14.5V     100     to     680     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.5V     100     to     640     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.0V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     17.5V     100     to     580     1%     ±1%     ±5%     ±5%       SPA170yyyl     17.5V     100     to	SPA120yyyyl	12.0V	100 to 830	1%	±1%	±5%	±5%
SPA135yyyyl     13.5V     100     to     730     1%     ±1%     ±5%     ±5%       SPA140yyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA145yyyyl     14.5V     100     to     680     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA155yyyl     15.5V     100     to     640     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.0V     100     to     620     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA170yyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.0V     100     to	SPA125yyyyl	12.5V	100 to 800	1%	±1%	±5%	±5%
SPA140yyyl     14.0V     100     to     700     1%     ±1%     ±5%     ±5%       SPA145yyyl     14.5V     100     to     680     1%     ±1%     ±5%     ±5%       SPA150yyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA155yyyl     15.5V     100     to     640     1%     ±1%     ±5%     ±5%       SPA160yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA165yyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA170yyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.0V     100     to     550     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.5V     100     to	SPA130yyyl	13.0V	100 to 750	1%	±1%	±5%	±5%
SPA145yyyyl     14.5V     100 to 680     1%     ±1%     ±5%     ±5%       SPA150yyyyl     15.0V     100 to 660     1%     ±1%     ±5%     ±5%       SPA155yyyyl     15.5V     100 to 640     1%     ±1%     ±5%     ±5%       SPA160yyyyl     16.0V     100 to 620     1%     ±1%     ±5%     ±5%       SPA165yyyyl     16.5V     100 to 600     1%     ±1%     ±5%     ±5%       SPA170yyyyl     17.0V     100 to 580     1%     ±1%     ±5%     ±5%       SPA175yyyyl     17.5V     100 to 570     1%     ±1%     ±5%     ±5%       SPA180yyyyl     18.0V     100 to 550     1%     ±1%     ±5%     ±5%       SPA185yyyyl     18.5V     100 to 540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100 to 520     1%     ±1%     ±5%     ±5%       SPA200yyyl     19.5V     100 to 510     1%     ±1%     ±5%     ±5%       SPA205yyyl	SPA135yyyyl	13.5V	100 to 730	1%	±1%	±5%	±5%
SPA150yyyyl     15.0V     100     to     660     1%     ±1%     ±5%     ±5%       SPA155yyyyl     15.5V     100     to     640     1%     ±1%     ±5%     ±5%       SPA160yyyyl     16.0V     100     to     620     1%     ±1%     ±5%     ±5%       SPA165yyyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA170yyyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyyl     18.0V     100     to     550     1%     ±1%     ±5%     ±5%       SPA185yyyyl     18.5V     100     to     540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100     to     520     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100     to	SPA140yyyyl	14.0V	100 to 700	1%	±1%	±5%	±5%
SPA155yyyyl     15.5V     100     to     640     1%     ±1%     ±5%     ±5%       SPA160yyyyl     16.0V     100     to     620     1%     ±1%     ±5%     ±5%       SPA165yyyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA170yyyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyyl     18.0V     100     to     550     1%     ±1%     ±5%     ±5%       SPA185yyyyl     18.5V     100     to     540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100     to     520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100     to     510     1%     ±1%     ±5%     ±5%       SPA200yyyll     20.0V     100     to	SPA145yyyyl	14.5V	100 to 680	1%	±1%	±5%	±5%
SPA160yyyyl     16.0V     100     to     620     1%     ±1%     ±5%     ±5%       SPA165yyyyl     16.5V     100     to     600     1%     ±1%     ±5%     ±5%       SPA170yyyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyyl     18.0V     100     to     550     1%     ±1%     ±5%     ±5%       SPA185yyyyl     18.5V     100     to     540     1%     ±1%     ±5%     ±5%       SPA190yyyyl     19.0V     100     to     520     1%     ±1%     ±5%     ±5%       SPA195yyyyl     19.5V     100     to     510     1%     ±1%     ±5%     ±5%       SPA200yyyyl     20.0V     100     to     500     1%     ±1%     ±5%     ±5%       SPA210yyyyl     21.0V     100     to <td>SPA150yyyyl</td> <td>15.0V</td> <td>100 to 660</td> <td>1%</td> <td>±1%</td> <td>±5%</td> <td>±5%</td>	SPA150yyyyl	15.0V	100 to 660	1%	±1%	±5%	±5%
SPA165yyyyl     16.5V     100 to 600     1%     ±1%     ±5%     ±5%       SPA170yyyyl     17.0V     100 to 580     1%     ±1%     ±5%     ±5%       SPA175yyyl     17.5V     100 to 570     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.0V     100 to 550     1%     ±1%     ±5%     ±5%       SPA185yyyl     18.5V     100 to 540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100 to 520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100 to 510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to 500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22	SPA155yyyyl	15.5V	100 to 640	1%	±1%	±5%	±5%
SPA170yyyyl     17.0V     100     to     580     1%     ±1%     ±5%     ±5%       SPA175yyyyl     17.5V     100     to     570     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.0V     100     to     550     1%     ±1%     ±5%     ±5%       SPA185yyyyl     18.5V     100     to     540     1%     ±1%     ±5%     ±5%       SPA190yyyyl     19.0V     100     to     520     1%     ±1%     ±5%     ±5%       SPA195yyyyl     19.5V     100     to     510     1%     ±1%     ±5%     ±5%       SPA200yyyyl     20.0V     100     to     500     1%     ±1%     ±5%     ±5%       SPA205yyyyl     20.5V     100     to     480     1%     ±1%     ±5%     ±5%       SPA210yyyyl     21.0V     100     to     470     1%     ±1%     ±5%     ±5%       SPA220yyyyl     22.0V     100     to	SPA160yyyyl	16.0V	100 to 620	1%	±1%	±5%	±5%
SPA175yyyl     17.5V     100 to 570     1%     ±1%     ±5%     ±5%       SPA180yyyl     18.0V     100 to 550     1%     ±1%     ±5%     ±5%       SPA185yyyl     18.5V     100 to 540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100 to 520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100 to 510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to 500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0	SPA165yyyyl	16.5V	100 to 600	1%	±1%	±5%	±5%
SPA180yyyl     18.0V     100 to     550     1%     ±1%     ±5%     ±5%       SPA185yyyl     18.5V     100 to     540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100 to     520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100 to     510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to     500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to     480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to     470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to     460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to     450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22.5V     100 to     440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V	SPA170yyyyl	17.0V	100 to 580	1%	±1%	±5%	±5%
SPA185yyyyl     18.5V     100 to 540     1%     ±1%     ±5%     ±5%       SPA190yyyl     19.0V     100 to 520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100 to 510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to 500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA175yyyyl	17.5V	100 to 570	1%	±1%	±5%	±5%
SPA190yyyl     19.0V     100 to     520     1%     ±1%     ±5%     ±5%       SPA195yyyl     19.5V     100 to     510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to     500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to     480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to     470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to     460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to     450     1%     ±1%     ±5%     ±5%       SPA225yyyyl     22.5V     100 to     440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V     100 to     430     1%     ±1%     ±5%     ±5%	SPA180yyyyl	18.0V	100 to 550	1%	±1%	±5%	±5%
SPA195yyyl     19.5V     100 to 510     1%     ±1%     ±5%     ±5%       SPA200yyyl     20.0V     100 to 500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA185yyyyl	18.5V	100 to 540	1%	±1%	±5%	±5%
SPA200yyyl     20.0V     100 to 500     1%     ±1%     ±5%     ±5%       SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA190yyyyl	19.0V	100 to 520	1%	±1%	±5%	±5%
SPA205yyyl     20.5V     100 to 480     1%     ±1%     ±5%     ±5%       SPA210yyyl     21.0V     100 to 470     1%     ±1%     ±5%     ±5%       SPA215yyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA195yyyyl	19.5V	100 to 510	1%	±1%	±5%	±5%
SPA210yyyl 21.0V 100 to 470 1% ±1% ±5% ±5%   SPA215yyyl 21.5V 100 to 460 1% ±1% ±5% ±5%   SPA220yyyl 22.0V 100 to 450 1% ±1% ±5% ±5%   SPA225yyyl 22.5V 100 to 440 1% ±1% ±5% ±5%   SPA230yyyl 23.0V 100 to 430 1% ±1% ±5% ±5%	SPA200yyyyl	20.0V	100 to 500	1%	±1%	±5%	±5%
SPA215yyyyl     21.5V     100 to 460     1%     ±1%     ±5%     ±5%       SPA220yyyyl     22.0V     100 to 450     1%     ±1%     ±5%     ±5%       SPA225yyyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA205yyyyl	20.5V	100 to 480	1%	±1%	±5%	±5%
SPA220yyyl 22.0V 100 to 450 1% ±1% ±5% ±5%   SPA225yyyyl 22.5V 100 to 440 1% ±1% ±5% ±5%   SPA230yyyl 23.0V 100 to 430 1% ±1% ±5% ±5%	SPA210yyyyl	21.0V	100 to 470	1%	±1%	±5%	±5%
SPA225yyyyl     22.5V     100 to 440     1%     ±1%     ±5%     ±5%       SPA230yyyyl     23.0V     100 to 430     1%     ±1%     ±5%     ±5%	SPA215yyyyl	21.5V	100 to 460	1%	±1%	±5%	±5%
SPA230yyyyl 23.0V 100 to 430 1% ±1% ±5% ±5%	SPA220yyyyl	22.0V	100 to 450	1%	±1%	±5%	±5%
7777	SPA225yyyyl	22.5V	100 to 440	1%	±1%	±5%	±5%
SPA235yyyyl 23.5V 100 to 420 1% ±1% ±5% ±5%	SPA230yyyyl	23.0V	100 to 430	1%	±1%	±5%	±5%
	SPA235yyyyl	23.5V	100 to 420	1%	±1%	±5%	±5%
SPA240yyyyl     24.0V     100 to 400     1%     ±1%     ±5%     ±5%	SPA240yyyyl	24.0V	100 to 400	1%	±1%	±5%	±5%

# Mechanical Drawing





Safty mark























