ARPJ-SS140350 (50W, 350mA, PFC)

ARPJ-SS80700 (50W, 700mA, PFC)

ARPJ-SS481050 (50W, 1050mA, PFC)

FEATURES

- High efficiency 90%
- Active PFC>0.95
- No pulsation
- Protections: Short-circuit /Over-load /Over-voltage /Over-temperature
- Working temperature : -40°C ~ + 70°C
- IP67 design
- 2~3 times burn-in tests (+50°C / -40°C at full load with over 14 hours)
- Economical design

SPECIFICATION

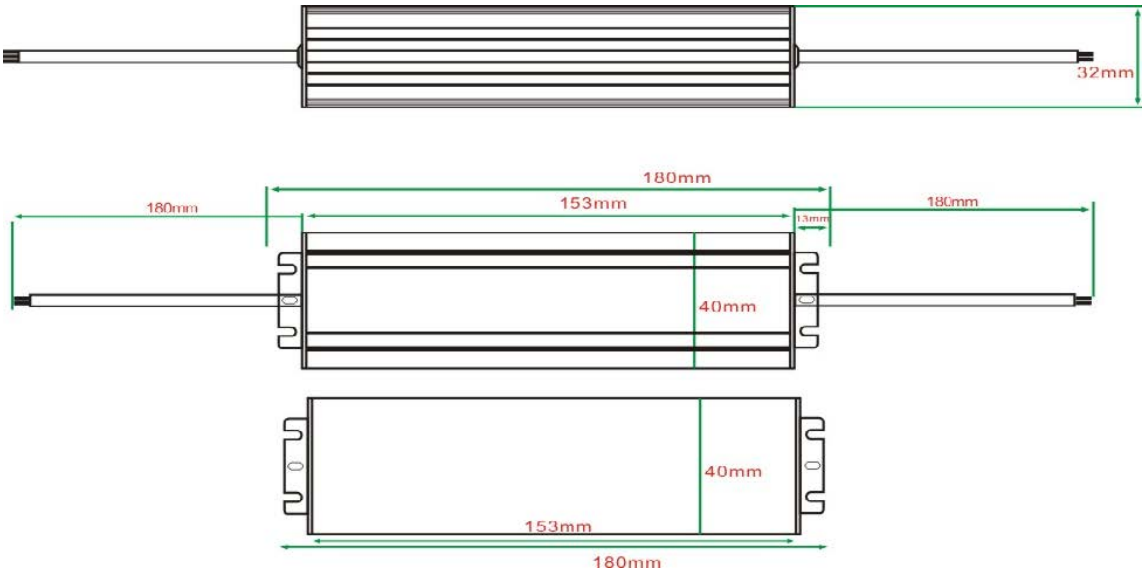
Model		ARPJ-SS140350	ARPJ-SS80700	ARPJ-SS481050
Input	Voltage Range	170~264VAC / 90~132VAC / 90~264VAC		
	Frequency Range	47~63Hz		
	Efficiency *(Note 3)*	90%	88%	88%
	AC Current	0.63A ~ 0.20A		
	Inrush Current	Cold Start at 45A/230VAC, Input at Ta: 25°C cold start.		
	Leakage Current	<0.5mA at 230VAC, 60Hz Input		
Output	Rated Voltage *(Note 1)*	350 mA	700 mA	1050 mA
	Output Voltage Range	70~140VDC	40~75VDC	29~48VDC
	Rated Power	50W	50W	50W
	Ripple and Noise (Max)*(Note 2)*	800mVp-p	650mVp-p	400mVp-p
	Voltage Tolerance	±3.0%	±3.0%	±3.0%
	Line Regulation	±1%	±1%	±1%
	Load Regulation	±1.0%	±1.0%	±1.0%
	Set-up, Rise Time	1500ms 80ms/230VAC, 2000ms 80ms/110VAC		
	Hold-up Time	50ms/230VAC at full load, 25ms/110VAC at full load		
Protection	Current protection	±1% (current limiting type)		
	Over-Voltage	110% ~ 130% (Shut down O/P voltage, repower on to recover)		
	Over-load	110% ~ 130% (Shut down O/P voltage, repower on to recover)		
	Short Circuit	Hiccup mode, recovers automatically after faulty problem is removed		
	Over-temperature	85°C±10°C (Shut down O/P voltage, re-power on to recover)		
Working Environment	Working Environment *(Note 4)*	-40°C ~ +70°C		
	Working Humidity	20~90% RH non-condensing		
	Storage Environment & Humidity	-45°C ~ +80°C		
	TEMP. Coefficient	±0.05%°C (0~50°C)		
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		

Safety & EMC	Safety standards	EN-61347-1, EN61347-2-13, IP67, ROHS Tests, Design refer to UL8750
	Withstand voltage	I/P-O/P: 3KVAC
	Isolation resistance	I/P-O/P IP-FG OP-FG: 100M Ohms/500VDC / 25°C / 70% RH
	EMC Emission	Compliance to EN55015: 2007, EN61547:1995+A1:2000; EN61000-3-2: 2006; EN61000-3-3: 2008
	EMC Immunity	Compliance to EN55015 EN61547 EN61000-4-2,3,4,5,6,8,11
Others	Life Span (Note 5)	≥50000Hrs (25~30°C)
	No Load power consumption	≤1.5W
	MTBF (Note 6)	250K hrs min, MIL-HDBK-217F (25°C)
	Dimension (Note 7)	180*40*30 mm (L*W*H)
	Packing (Note 8)	26pcs/carton
	Weight	0.42Kg/pc

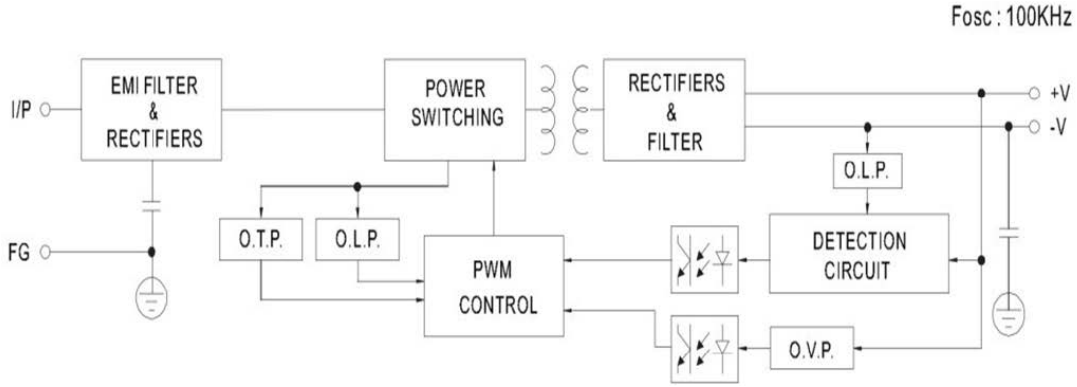
All parameter are measured at normal temperature (+25 ~ +28°C)

1. The rated current can be customized, such as 1200mA / 1600mA… can be customized
2. Ripple & Noise are measured at 20KHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor (at full load)
3. The efficiency measured at Max output voltage, and 230VAC with full load, if with 110VAC the efficiency will be lowered 0.5% ~ 1.5%; Working 1~2 hours, efficiency will be higher 0.5% ~ 1% than the initial stage
4. This measured at 120VAC, 80% ~85% load with environmental temperature about +25°C~+30°C, the outer housing temperature with +55°C or so.
5. This measured at 120VAC, 80% ~85% load with environmental temperature about +25°C~+30°C, the outer housing temperature with +55°C or so.
6. More details see the following mechanical draft.

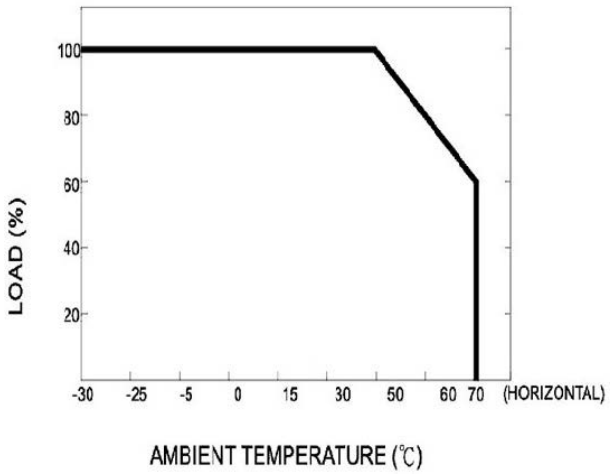
MECHANICAL SPECIFICATION



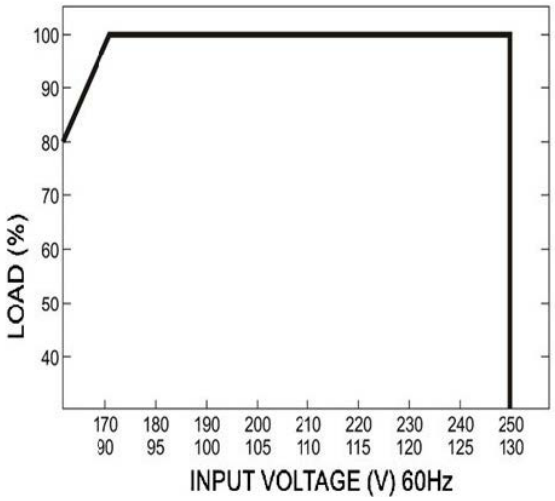
BLOCK DIAGRAM



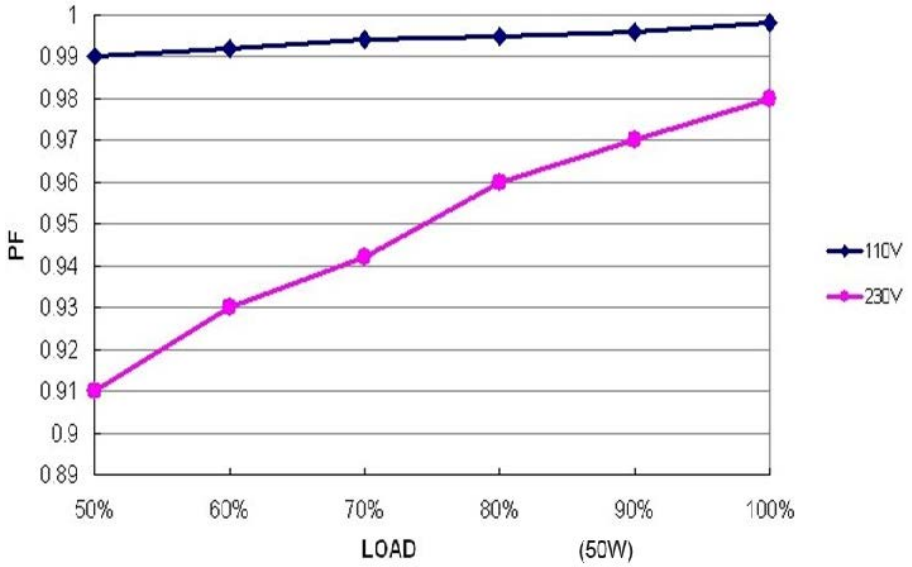
DERATING CURVE



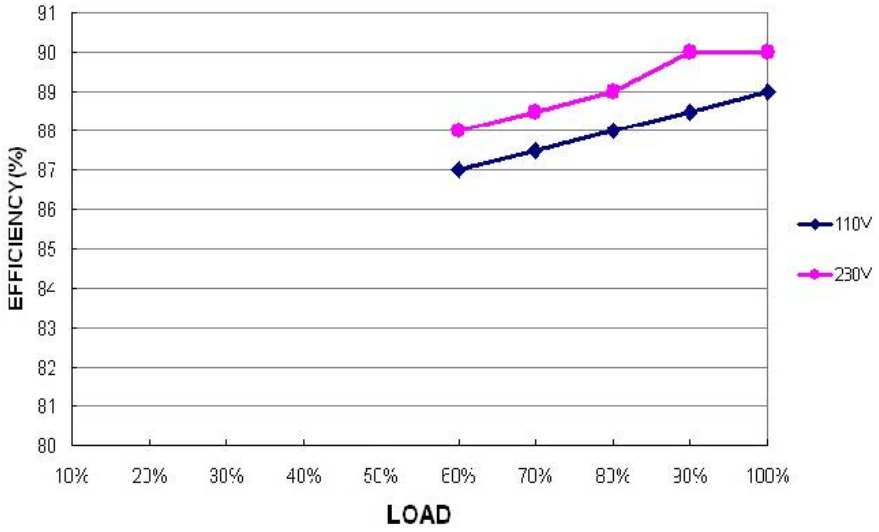
STATIC CHARACTERISTICS



POWER FACTOR CHARACTERISTICS



EFFICIENCY & LOAD OF (900mA) (110VAC / 230VAC)



The Output voltage range usually is 60% ~ 100% design