

Features

- Input Voltage 90~264V AC
- Optional: DC OK Signal & Redundant Function
- Built in Active PFC Function
- Working Temperature 30~+70°C
- Efficiency up to 94%
- Protection: OLP, OVP, OTP SCP
- 3 Years Warranty



Certified to & Standards and complies with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Voltage Adj. Range (V)	Efficiency (%)	Ripple & Noise (mVp-p)
56YEF200-05	5	40	200	4.5~5.5	91	200
56YEF200-12	12	16.7	200.4	11.4~12.6	93	240
56YEF200-15	15	13.4	201	14.3~15.8	94	240
56YEF200-24	24	8.4	201.6	22.8~25.2	94	240
56YEF200-36	36	5.6	201.6	34.2~37.8	94	240
56YEF200-48	48	4.2	201.6	45.6~50.4	94	300
56YEF200-55	55	3.6	198	49.5~60.5	93	

Models – With Redundant Function

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Voltage Adj. Range (V)	Efficiency (%)	Ripple & Noise (mVp-p)
56YEF200R-05	5	40	200	4.5~5.5	91	200
56YEF200R-12	12	16.7	200.4	11.4~12.6	93	240
56YEF200R-15	15	13.4	201	14.3~15.8	94	240
56YEF200R-24	24	8.4	201.6	22.8~25.2	94	240
56YEF200R-36	36	5.6	201.6	34.2~37.8	94	240
56YEF200R-48	48	4.2	201.6	45.6~50.4	94	300
56YEF200R-55	55	3.6	198	49.5~60.5	93	

Input Specifications

Voltage Range	90~264VAC 127~370VDC
Frequency Range	47~63Hz
Power Factor	PF>0.94/230VAC PF>0.98/115VAC at full load
AC Current (Typ.)	2.2A/115VAC 1.1A/230VAC
Inrush Current (Typ.)	Cold Start 40A/115VAC Cold Start 80A/230VAC
Leakage Current	<0.75mA/240VAC

Output Specifications

Voltage Tolerance	±2.0%	5v
	±1.0%	Others
Line Regulation	±0.5%	
Load Regulation	±1.0%	5v
	±0.5%	Others
Setup, Rise Time	2000ms, 80ms/230VAC at full load	
	3000ms, 80ms/115VAC at full load	
Hold Up Time (Typ.)	10ms/230VAC at full load	
	10ms/115VAC at full load	

Protection

Overload	110%-140% Rated Output Power Protection type: Hiccup mode, recovers automatically after fault condition is removed	
Over Voltage	5.75~6.75v	5v
	13.2~15.6v	12v
	16.5~19.5v	15v
	26.4~31.2v	24v
	39.6~46.8v	36v
	52.8~62.4v	48v
	60.5~71.5v	55v
	Protection type: Shut down O/P voltage, re-power on to recover	
Over Temperature	Protection type: Shut down O/P voltage, recover automatically after temperature goes down	

Function

DC OK Signal (optional)	Contact rating (max.): 15Vdc/10mA resistive load
Redundant (optional)	For parallel connection protection: For parallel applications, when one PSU cannot work, the other one will automatically be enabled. This can prevent system crashes and ensure system reliability.

Environmental Characteristics

Working Temp	-30 °C to +70 °C (Refer to "Derating Curve")
Working Humidity	20 ~ 95% RH Non-Condensing
Storage Temp., Humidity	-40°C ~+85°C, 10 ~ 95% RH non-condensing
Temp. Coefficient	± 0.03%/°C(0~50°C)
Vibration	10~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes

Safety

Safety Standards	Pending
Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/ 500VDC/25 °C/70% RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3
EMC Immunity	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55035

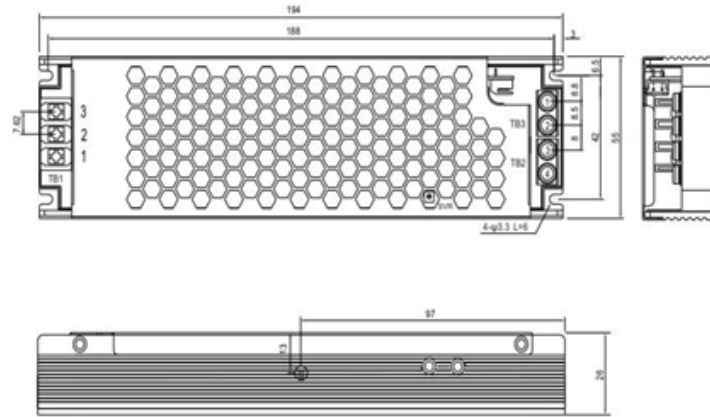
Other Specifications

MTBF	2472.1K hrs min. Telcordia SR-332 (Bellcore)
Dimension	194x55x26mm(L*W*H)
Weight	500g
Packing	36x32.5x18.5cm
Carton Quantities	60pcs/Carton

Notes:

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth using a 12" twisted pair wire terminated with a 0.1uf and 47uf parallel capacitor.
3. Tolerance includes set-up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltages. Please check the derating curve for more details.
5. The ambient temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft)
6. The power supply is considered a component which will be installed into the final equipment. The final equipment must be confirmed to meet EMC directives.
7. According to the actual measurement, R-type efficiency is slightly less than the Blank type.
8. Inrush's current parameter has a 10% tolerance.

Dimensions and Installation



AC Input Terminal(TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(DEGSON) DG28C-B-03P	5Kgf-cm
2	AC/N		
3	⊕		

DC Output Terminal(TB2, TB3) pin NO. Assignment

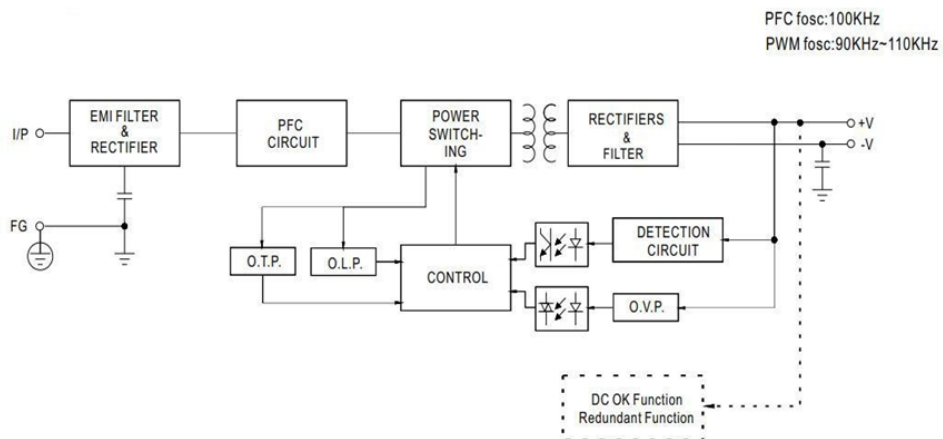
Pin No.	Assignment	Terminal	Max mounting torque
1,2	-V	MEL-400-02P	8Kgf-cm
3,4	+V		

DC OK Connector(CN1):JST B2B-PH-K-S or equivalent

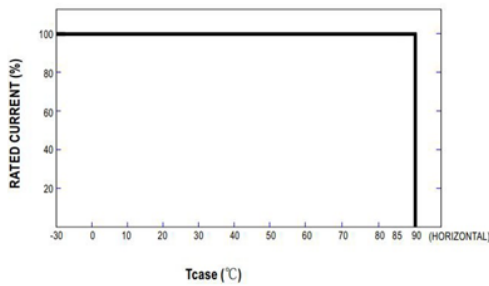
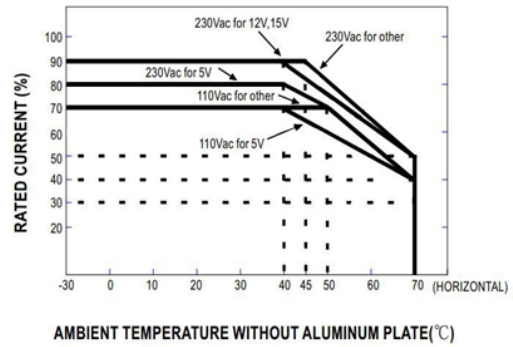
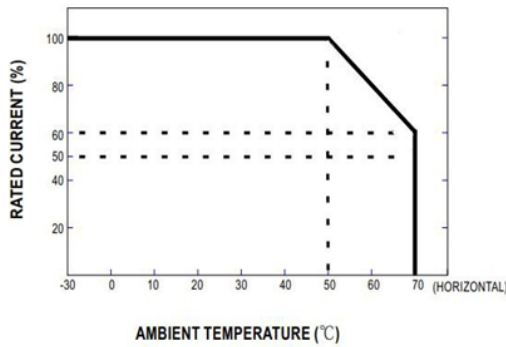
Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1	JST PHR-2 or equivalent	JST SPH-002T-P0.5S or equivalent
2	DC COM2		

AC – DC

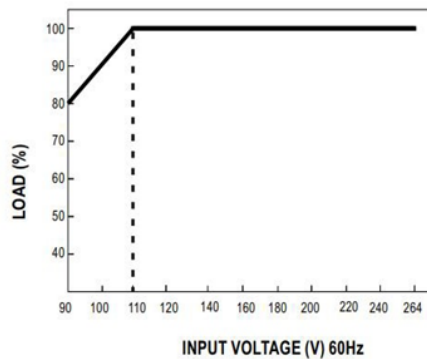
Block Diagram



Derating Curves



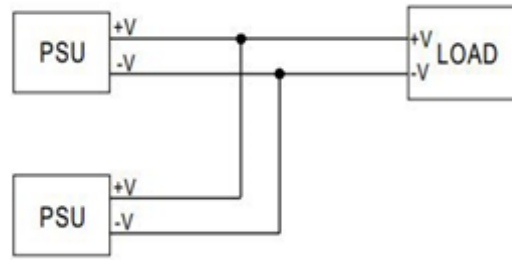
Minus output and input voltage curves



DC OK Relay Contact

Optocoupler C-E Pin Conduction	PSU turns on	DC ok
Optocoupler C-E Pin Open	PSU turns off	DC fail
Optocoupler Rating(max.)	15Vdc/10mA resistive load	

Redundant Function



- (1) 56YEF Series is a built-in redundant function and can be connected to 2 units in parallel.
- (2) When in parallel operation, the maximum load should not be greater than the rated power of any PSU.