

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	Rated Current (A)	Rated Power (W)	Voltage Adj. Range	Efficiency	Ripple & Noise
	(V)			(V)	(%)	(mVp-p)
56YEF350-05	5	60	300	4.5~5.5	90	200
56YEF350-12	12	29.2	350.4	11.4~12.6	91	200
56YEF350-15	15	23.4	351	14.3~15.8	92	200
56YEF350-24	24	14.6	350.4	22.8~25.2	94	240
56YEF350-36	36	9.75	351	34.2~37.8	94	240
56YEF350-48	48	7.3	350.4	45.6~50.4	94	240
56YEF350-55	55	6.3	346.5	49.5~60.5	93	

Models – With	Redundant Fea	ature				
Model Number	DC Voltage	Rated Current (A)	Rated Power (W)	Voltage Adj. Range	Efficiency	Ripple & Noise
	(V)			(V)	(%)	(mVp-p)
56YEF350-05	5	60	300	4.5~5.5	90	200mVp-p
56YEF350-12	12	29.2	350.4	11.4~12.6	91	200mVp-p
56YEF350-15	15	23.4	351	14.3~15.8	92	200mVp-p
56YEF350-24	24	14.6	350.4	22.8~25.2	94	240mVp-p
56YEF350-36	36	9.75	351	34.2~37.8	94	240mVp-p
56YEF350-48	48	7.3	350.4	45.6~50.4	94	240mVp-p
56YEF350-55	55	6.3	346.5	49.5~60.5	93	



Input Specifications

Output Specifications

Protection

input opcolications	
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.)	4A/115VAC
	2A/230VAC
Inrush Current (Typ.)	Cold Start 30A/115VAC
	Cold Start 60A/230VAC
Leakage Current	<0.75mA/240VAC

Output Specification	15		
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,	3000ms, 80ms/115VAC at full load	
Hold Up Time (Typ.)	10ms/230	VAC at full load	
	10ms/115	10ms/115VAC at full load	

Overload	110%-140% Rated Output Power			
0.0	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	5.75~6.75v 5v			
	13.2~15.6v 12v			
	16.5~19.5v 15v			
Over Veltage	26.4~31.2v 24v			
Over Voltage	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 provide 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

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	1791.2K hrs min. Telcordia SR-332 (Bellcore
Dimension	220X62X31mm(L*W*H)
Weight	700G
Packing	36X31.5X17.5cm
Carton Quantities	50pcs/Carton

Notes:

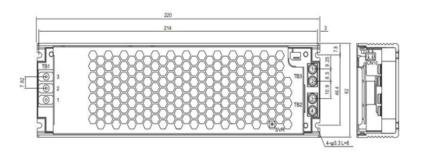
Safety

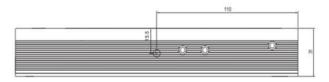
Other Specifications

- 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. R type efficiency is slightly less than the Blank type, according to the actual measurement.
- 8. Inrush's current parameter has a 10% tolerance.



Dimensions and Installation





· (E): Max. Case Temperature

AC Input Terminal (TB1) pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	(0.5000)))	
2	AC/N	(DEGSON) DG28C-B-03P	5Kgf-cm
3	+	DO200 D 001	100

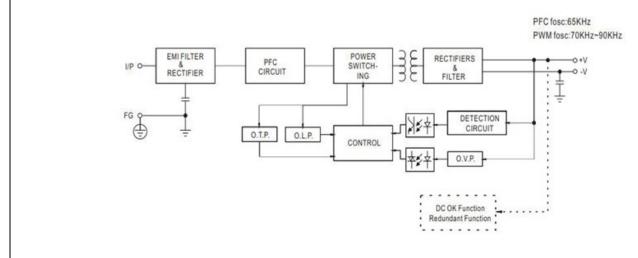
DC OK Connector(CN1):	:35182	R-LH-K-2	or requivalent
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Pin No.	Assignment	Mating Housing	Terminal
1	DC COM1	JST PHR-2	JST SPH-002T-P0.5S
2	DC COM2	or requivalent	or requivalent

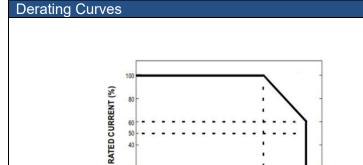
DC Output Terminal (TB2, TB3) pin NO. Assignment

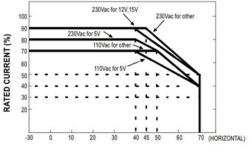
Pin No.	Assignment	Terminal	Max mounting torque	
1,2	-V		(autoritie)	
3,4	+V	MEL-400-02P	8Kgf-cm	

Block Diagram

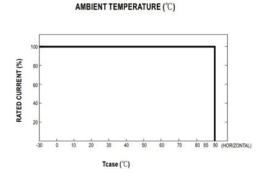




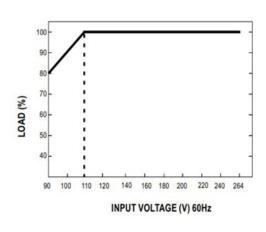




AMBIENT TEMPERATURE WITHOUT ALUMINUM PLATE(°C)



Minus output and input voltage curves

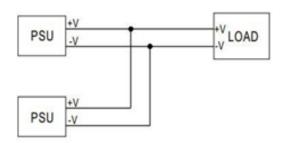


DC OK Relay Contact

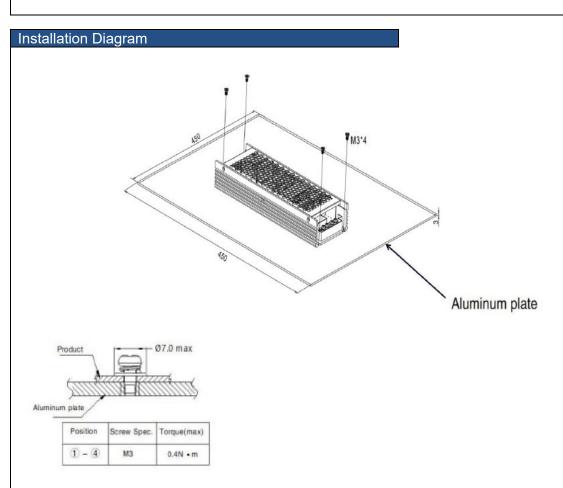
Optocoupler C-E Pin Conduction	PSU turns on	DC ok
Optocoupler C-E Pin Open	PSU turns off	DC fail
Optocoupler Rating(max.)	15Vdc/10mA resistive load	



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.



Note:

- 1. Operate with an additional aluminium plate
- To meet the "Derating Curve" and the "Static Characteristics", the 56YEF series must be installed onto an aluminium plate(or a cabinet of the same size)
- on the bottom. The size of the suggested aluminium plate is shown below. For optimising thermal performance, the aluminium plate must have
- an even and smooth surface (or be coated with thermal grease), and the 56YEF series must be firmly mounted at the centre of the aluminium plate.
- 2. It is suggested to install the product with M3 combination screws, and the product must be firmly installed at the centre of the aluminium plate.