ORDERING CODE

Example: ZPL 15 S 12 00 W S

ZP=Zettler standard series
AP=Customized series
HP=High Performance series
DP=DC-DC
L=Chipset identifier

Output Power (W)
03=3W
20=20W

Output Type
S=Single Output
D=Dual Output
T=Triple Output

First Output Voltage
05=5V, 12=12V

Second Output Voltage
06=6V, 12=12V
00= No Second Output

Input AC Voltage Range
W=Wide Voltage Input
H=High Voltage Input (⩾165VAC)
L=Low Voltage Input (＜165VAC)

Case Dimension
A: A Type case
B: B Type case…

FEATURES

- PCB mounted switching Power module
- AC input voltage range: 90VAC~305VAC
- DC input voltage range: 120VDC-430VDC
- Ambient temperature range: -25℃~50℃
- Storage temperature range: -25℃~85℃
- Leakage current (input :264VAC):＜0.3mA
- Isolation voltage: input –Output≥3000VAC 60S
- Insulation Resistance: Input –Output 500VDC≥100M Ohms
- MTBF: 300Khrs Min MIL-HDBK-217F（25℃）
- Compact size, easy installation
- High efficiency low standby Power consumption, green environmental protection function
- Built-in output over current protection, over-voltage protection, short circuit protection
- Built-in EMI filter components, comply with the EN55032 class B standard
- Class Ⅱ Construction

APPLICATIONS

This series could be widely applied in the applications of harsh industrial, EV charger, Automotive etc.

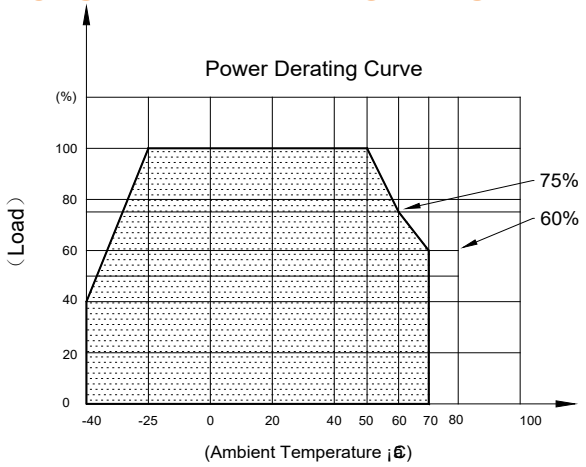
MODEL LIST

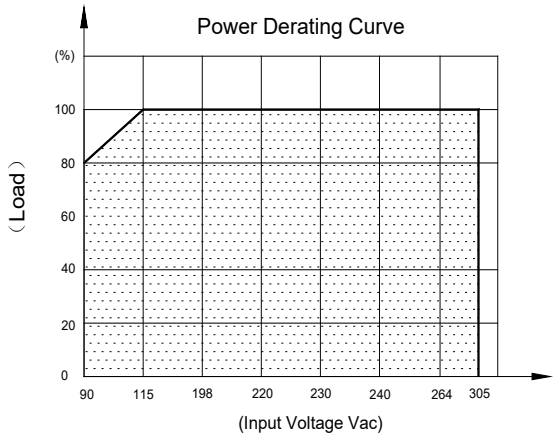
Model No.	Output Power	DC Voltage	Rated Current	Efficiency 230VAC，% Typ.	Ripple&Noise (max)	Ambient TEMP(℃)	Weight
ZPL15S0500WS	15W	5Vdc	3000mA	78%	＜200mV	50	81g
ZPL15S1200WS	15W	12Vdc	1250mA	82%	＜200mV	50	81g
ZPL15S1500WS	15W	15Vdc	1000mA	82%	＜200mV	50	81g
ZPL15S1800WS	15W	18Vdc	833mA	83%	＜200mV	50	81g
ZPL15S2400WS	15W	24Vdc	625mA	83%	＜200mV	50	81g

ELECTRICAL SPECIFICATION

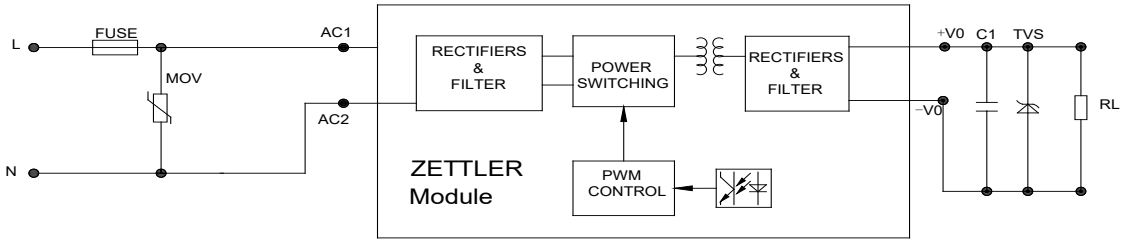
Model No.		ZPL15SXX00WS		
Input	Rated Voltage	100~277VAC		
	Voltage Range	90-305VAC or 120~430VDC		
	Frequency (Hz)	47-63 Hz		
	Current (Full load)	115VAC	277VAC	
		350mA	160mA	
	Inrush Current (<500us)	20A	40A	
	No Load Loss	0.3W Max @230VAC		
	HOT PLUG	Unavailable		
Output	Voltage (V)	Refer to “Model List”		
	Current (mA) max.	Refer to “Model List”		
	Voltage Accuracy	±3%		
	Line Regulation	±1%		
	Load Regulation	±1%		
	Minimum Load (mA)	0		
	Ripple & Noise	Refer to “Model List”		
	Efficiency（typ.）	Refer to “Model List”		
	Start-up Time	3S		
	Hold up Time	76.9ms/230VAC,13.6ms/115VAC		
Protection	Over Current Protection	Hiccup mode		
	Short Circuit Protection	Hiccup mode		
Environment	Operating Temperature	-40°C…+70°C @Free air convection (Refer to the derating curve)		
	Operating Humidity	20~90% RH (No Condensing) at full load		
	Storage Temperature	-25°C~85°C		
	Storage Humidity	10~95% RH		
	Temperature Coefficient	±0.05%/°C（0~50℃）		
Physical	Case Material	Plastic （UL 94V-0 rated）		
	Weight	81g（REF.）		
Safety & EMC	Dielectric Strength	I/P-O/P : 3000VAC		
	Safety Standards	Compliance With UL/EN62368-1		
	EMI	Compliance With EN55032, CLASS B EN61000-3-2，EN61000-3-3	Need to add external EMC component (Refer to the Schematic)	
	EMS (Noise Immunity)	Compliance With EN 55035		
Reliability Requirement	MTBF	300Khrs Min MIL-HDBK-217F（25℃）		
	Burn-In Test	The unit shall be burned in for 2~4 hours under277Vac input and DC with full load at normal temperature		

PRODUCT CHARACTERISTIC CURVE





TYPICAL APPLICATION SCHEMATIC



ITEM	MOV	FUSE
1~2W	14D561K	1A/250V
3-10W	14D561K	2A/250V
10~20W	14D561K	3.15A/250V

Note: External circuit components are only recommendations, customers should choose their own components and values according to their specific system application requirements.

MECHANICAL SPECIFICATION