Single Output With PFC Function

MODEL	ELDV-12E250P	ELDV-24E250P
OUTPUT VOLTAGE	12V	24V
VOLTAGE ADJ.RANG	10.2~13.8V	21.6~28.8V
CURRENT RANGE	0-21 A	0-10.5 A
INPUT VOLTAGE	90~264Vac 127~370Vdc	
INPUT CURRENT	3.0A@115Vac 1.5A@230Vac	

SELV

Features:

- -Universal AC input 90~264Vac
- -Built-in active PFC function
- -Protections:Short circuit / Overload / Over voltage / Over temperature
- -Cooling by free air convection
- -1U low profile 30mm
- -100% full load burn-in test
- -LED indicator for power on
- -High reliability
- -3 years warranty
- -Compliance to IEC/EN/UL 62368-1

PF>0.9

INPUT

INPUT VOLTAGE	90~264Vac 127~370Vdc (Refer to the derating curve of "Loading and Input voltage")
POWER FACTORY	PF>0.95/230Vac PF>0.98/115Vac
FREQUENCY RANGE	47~63Hz
EFFICIENCY	89%@12V 90.5%@24V
AC INPUT CURRENT	⩽3.0A@115Vac ⩽1.5A@230Vac
AC INRUSH CURRENT	20A@115Vac 40A@230Vac
LEAKAGE CURRENT	⩽ 1mA/240Vac

PROTECTION

OVER LOAD	110%-140% rated power,Constant current limiting>3s, then hiccup, recovers automatically after fault condition is removed
SHORT CIRCUIT	Hiccup mode,recovers automatically after fault condition is removed
OVER TEMPERATURE	Hiccup mode,recovers automatically after fault condition is removed

ENVIRONMENT

OPERATING TEMPERATURE	-30℃~+70℃ (Refer to the derating curve of "Loading and Ambient temperature")
OPERATING HUMIDITY	20~90%RH non-condensing
STORAGE TEMP., HUMIDITY	-40℃~+85℃ 10%~95%RH

WEIGHT & PACKING

MTBF	⩾300Khrs.MIL-HDBK-217F(25℃)
PRODUCT DIMENSION	215x115x30mm(L*W*H)
NET WEIGHT	0.8KG
QUANTITY/CARTON	15PCS
GROSS WEIGHT	13KG

AN ON/OFF CONTROL(TYP.)

RTH2 ≥50℃ FAN ON, ≤40℃ FAN OFF

OUTPUT

DC OUTPUT	12V	24V
OUTPUT CURRENT	21A	10.5A
RATED POWER	252W	252W
VOLTAGE TOLERANCE	±1.5%	±1.0%
RIPPLE NOISE	150mV P-P(Max.)	
SETUP RISE TIME	1500mS,50mS@230Vac 3000mS,50mS@115Vac	

SAFETY & EMC

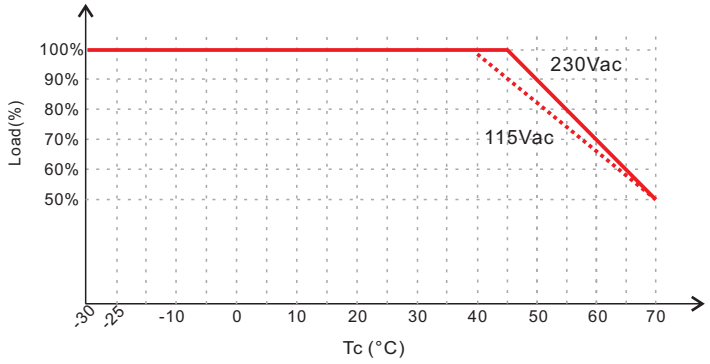
SAFTY	UL62368-1, EN62368-1, GB4943.1
WITHSTAND VOLTAGE	I/P-O/P:3KVac;I/P-FG:2KVac;O/P-FG:0.5KVac
ISOLATION	100M Ohms/500Vdc/25℃/70%RH

	Parameter	Standard	Test Lebel/Note
EMI	Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22,GB9254.1	Class B
	Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22,GB9254.1	Class B
	Harmonic current	BS EN/EN61000-3-2, GB17625.1	Class A
	Voltage flicker	BS EN/EN61000-3-3	------

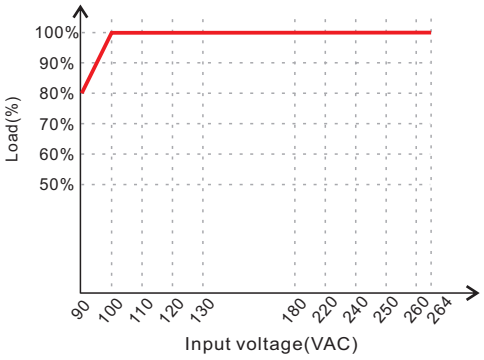
EMS	BS EN/EN55035		
	Parameter	Standard	Test Lebel/Note
	ESD	BS EN/EN61000-4-2	Level 4,8KV air,Level2, 4KV contact,criteria A
	RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
	EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
	Surge susceptibility	BS EN/EN61000-4-5	Level 3,1KV/L-N,2KV/L/N-FG criteria A
	Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A
	Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A
	Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods,30% dip 25 periods,>95% interruptions 250 periods

REV:A
20240305

LOADING AND AMBIENT TEMPERATURE



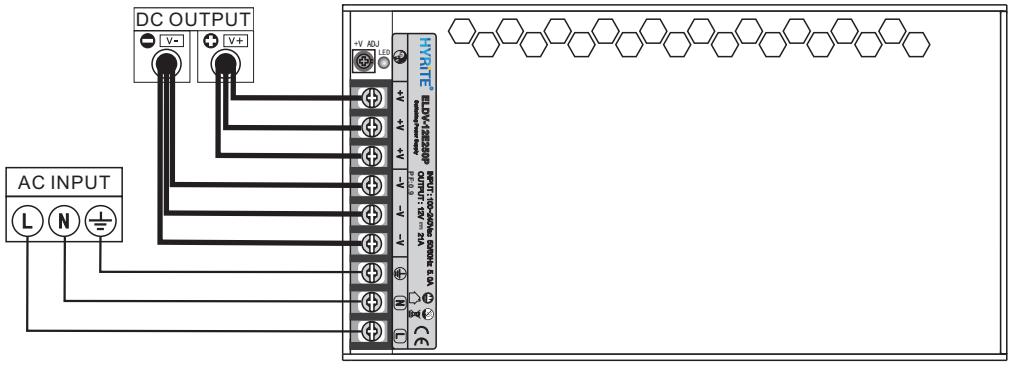
LOADING AND INPUT VOLTAGE



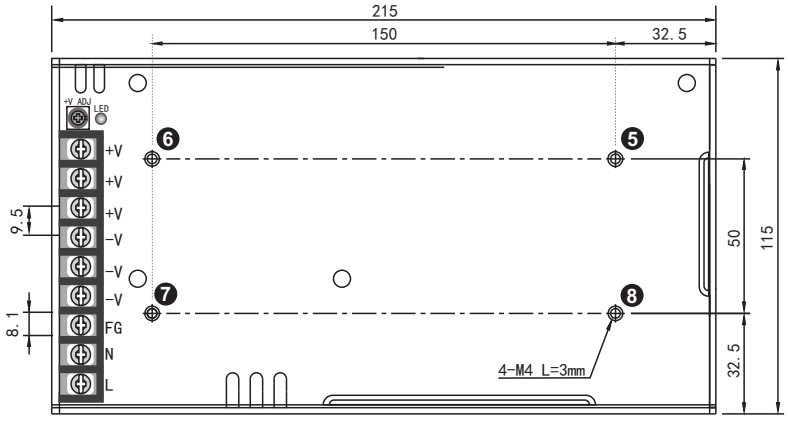
INSTALLATION GUIDE

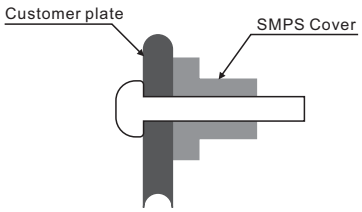
Product is for indoor use.
- The power supply must be grounded before installation and power on.
- Short circuit or overload will cause power supply protection, resultingin abnormal operation of the load (LED, instrument equipment, etc.).
- Maintaining good ventilation and heat dissipation is crucial to the lifespan of the power supply. Do not install the product in a sealed high -temperature environment or near flammable and explosive materials. Donot block the power supply vent with foreign objects.
- The connection line between the power supply and the load should be asshort as possible. A connection line that is too long or too thin will cause a voltage drop on the line, resulting in insufficient LED brightness, uneven lighting, etc.
- The product has low voltage and high current. Be sure to tighten the terminals during installation to avoid heat caused by poor contact.- When installing the product, try to stay away from environments with relatively high temperatures.

WIRE DIAGRAM

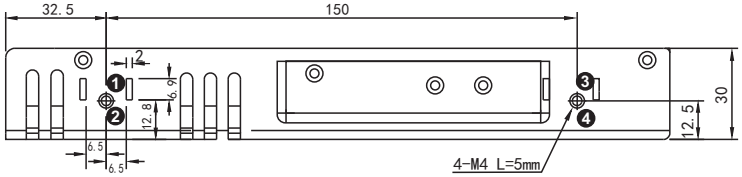


PRODUCT DIMENSIONS





NOTE:
Unit: mm
ADJ:Output adjustable resistor
Torque:M3.5, 0.8N.m Max
TOL: ±1.00



Position No	Screw Size	L max	Torque max
❺ ~ ❽	M4	3mm	0. 9N·m
❶ ~ ❹	M4	5mm	0. 9N·m