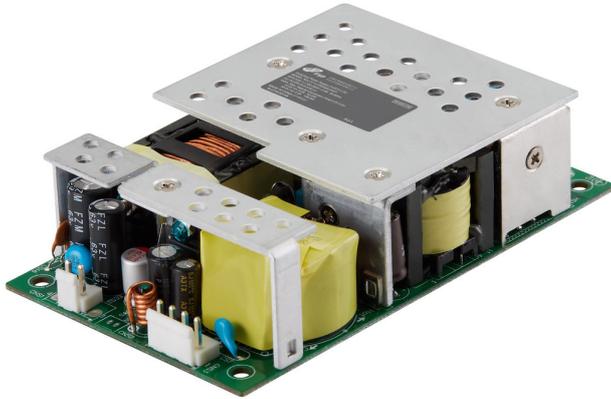


# FSP200-2H35-A54H

### FEATURES

- Class-I design
- Meet EN 55032 and FCC Class B
- Isolated between +12V & +54V outputs
- Isolated between PE and RETURN
- High altitude 5000 meters operation



### SAFETY STANDARD APPROVAL



### DESCRIPTION

This AC-DC switching power supplies in a package of 127 x 76.2 x 32 mm (above PCB) is an isolated dual outputs 54V & 12V PSU that suitable for PoE Switch & Network application. This PSU is capable of delivering 200 watts continuous power with 7 CFM forced air cooling conditions.

### INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	2.2 A (rms) for 115 VAC 1.2 A (rms) for 230 VAC
Earth leakage current:	1.5 mA max. @ 264 VAC, 63 Hz

### OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Total output power:	200W
Protection:	
Over voltage:	Set at 110~135% of nominal output voltage and auto-recovery
Short circuit & Over current:	Output protected to short circuit condition and auto-recovery
Over temperature:	Detected by thermistor and auto-recovery
Temperature coefficient:	All outputs $\pm 0.04\%$ / $^{\circ}\text{C}$ maximum
Transient response:	Maximum excursion of 5% or better on all models, recovering to 1% of final value within 500 $\mu\text{s}$ after a 25% step load change

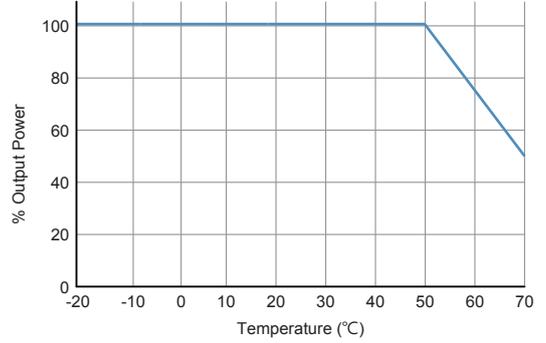
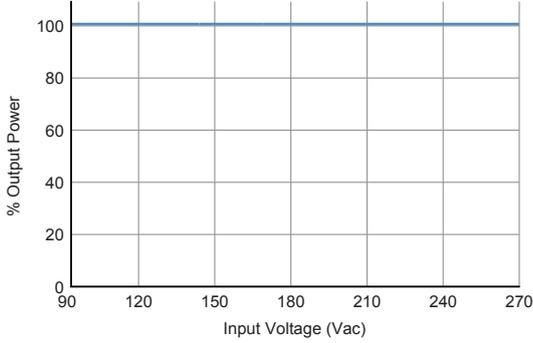
### ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	-20 $^{\circ}\text{C}$ ~+70 $^{\circ}\text{C}$
Storage temperature:	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50 $^{\circ}\text{C}$ linearly to 50% at +70 $^{\circ}\text{C}$ , applicable to both convection and forced-air cooling conditions

### GENERAL SPECIFICATIONS

Power factor:	0.98 min at 100% load and 115VAC 0.95 min. at 100% load and 230VAC
Efficiency:	86% minimum
Hold-up time:	10 ms minimum at 115 VAC
Power on time:	2 Sec maximum
Line regulation:	$\pm 1\%$ maximum at full load
Inrush current:	Under component stress and no damage to PSU
Withstand voltage:	3000 VAC from input to output, 1500 VAC from input to ground, 1500 VAC from output to ground
MTBF:	250,000 hours minimum at full load at 25 $^{\circ}\text{C}$ ambient, calculated per TELCORDIA SR-332
EMC Performance	
EN55032	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class D
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, $\pm 8$ KV air and $\pm 4$ KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, $\pm 1$ KV
EN61000-4-5:	Surge, $\pm 2$ KV diff, $\pm 4$ KV com
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 3 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms >95% reduction for 10 ms >95% reduction for 5000 ms

**OUTPUT POWER DERATING CURVE**



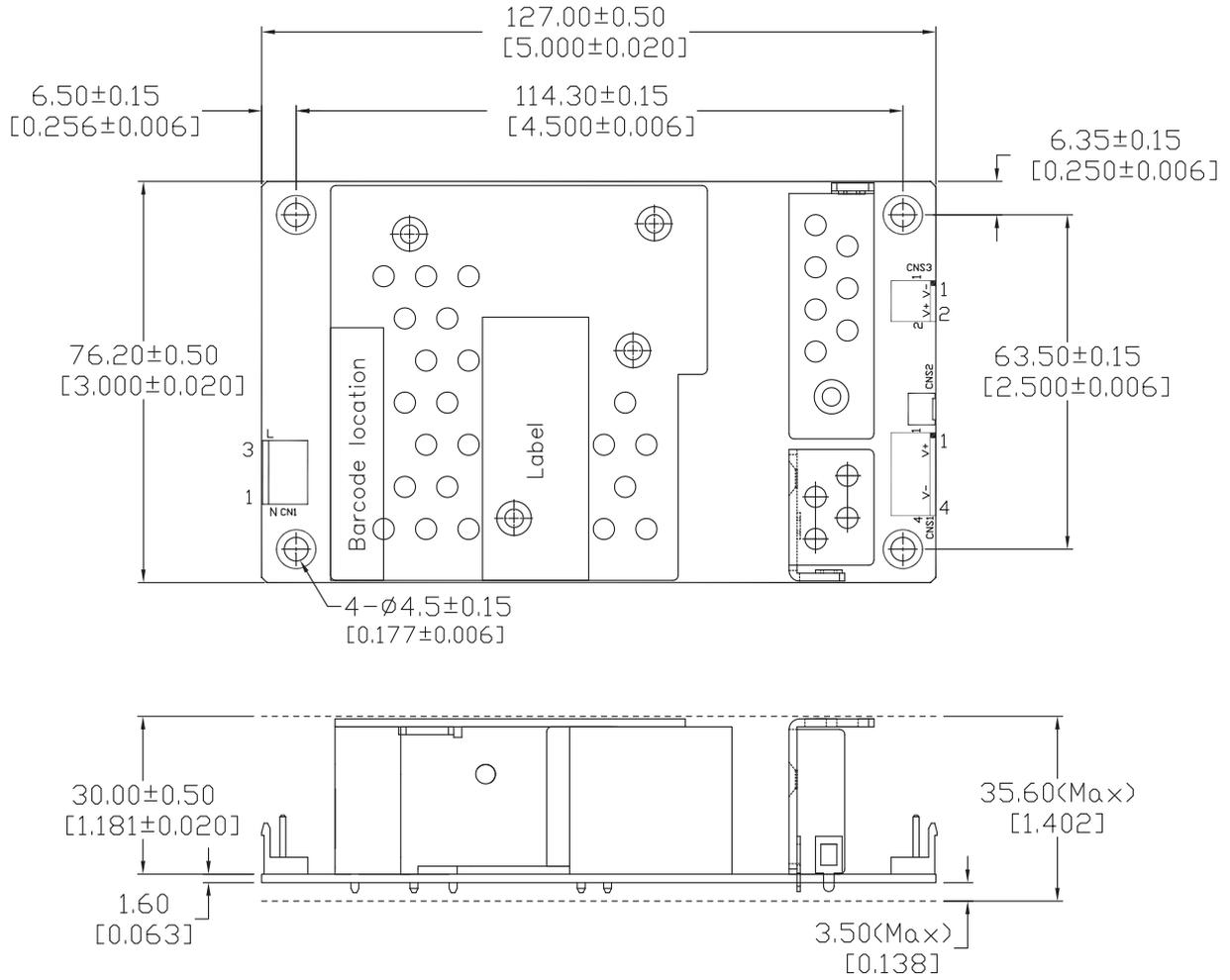
**OUTPUT VOLTAGE/CURRENT RATING CHART**

Model	Output Voltage	Min. Load	Max. Load (7 CFM)	Output Power	Ripple & Noise	Load Regulation	Efficiency 115 / 230 Vac
FSP200-2H35-A54H	54 V	0 A	3.0 A	200W	400 mV	±3%	89 / 91%
	12V	0 A	5.0 A		250 mV	±3%	

NOTES:

- Output voltage tolerance is measured at connector terminal
- Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

**MECHANICAL SPECIFICATIONS**



Pin assignment:  
 Input connector (CN1):

Pin No.	Function	Wafer
1	Neutral	JWT A3963WV2-3P or EQU
2	NC	
3	Line	

Pin assignment of (CNS1):

Pin No.	Function	Wafer
1	+54V	JWT A3963WV2-4P
2	+54V	
3	+54V_RTN	
4	+54V_RTN	

Output connector CNS3:

Pin No.	Function	Wafer
1	+12V_RTN	JWT A3963WV2-2P or EQU
2	+12V	

NOTES:

1. Dimension (L\*W\*H): 127 x 76.2 x 32 mm
2. To ensure compliance with level B emissions, connect the four PCB mounting holes with metallic standoffs to the chassis.
3. Weight: 410 grams / 0.90 lbs. approx.