

Integrated Power Supply

DYX-3000

Features

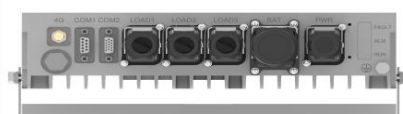
- ◆ Small-sized and light-weighted
- ◆ High power density
- ◆ Natural self-cooling design
- ◆ Wide input range: 90~280Vac
- ◆ Easy pluggable wiring
- ◆ Expandable up to 4 units
- ◆ Output disconnection by time or voltage setting
- ◆ IP65
- ◆ Multiple ways to install

Scenarios

- ◆ Small and medium-size communication base stations
- ◆ Indoor and outdoor walls, subways, tunnels, shafts and other sites with limited installation space

Introduction

ZTT DYX-3000 is a high efficient power supply designed for distributed micro base stations. It integrates the systems of rectifying, monitoring and communicating, power distributing, surge protecting. The aluminum shell with heatsink maximizes internal heat dissipation without additional cooling devices. It is compact, light and concise. DYX-3000 is used in combination with 4850Y as the backup lithium battery with a built-in BMS.



DYX-3000 (385 × 277 × 70mm)
~8kg



4850Y (425 × 185 × 310mm)
~28kg

Specifications

System		
1	Dimension	385*277*70（mm）
2	Weight	≤8kg
3	Installation method	wall-mounted pole-mounted ground-standing
4	Cabling method	Plugs at bottom side

Input Features		
1	Rated input voltage	220Vac, single-phase three-wire
2	Input voltage	90~280Vac（90-176Vac:output voltage derating）
3	Input frequency	45～65HZ
4	Power factor	≥0.99（@Vin=220Vac，100% loadrate）
5	THD	≤5%（@Vin=220Vac，100% loadrate）
6	Input derating points	176±5Vac（176-90Vac, output power linearly derating to 50%）
7	Input current max	20A
8	Input current inrush	≤35A

Output Features

1	Rated output voltage	53.5±0.5Vdc(adjustable)
2	Output voltage range	43~58Vdc (Factory default 53.5V, can be reset through protocol)
3	Rated output current	56.2A
4	Output current max	62.5±1A
5	Rated output power	3000W
6	Output efficiency	≥ 96%, 220Vac input, 100% load rate ≥ 94%, 220Vac input, 40% load rate
7	Voltage stabilization accuracy	±0.6%
8	Line regulation	±0.1%
9	Load regulation	±0.5%
10	Output ripple and noise	≤200mVp-p
11	Temperature factor	±0.02%/°C
12	Output hold-up time	≥8ms
13	Output rise time	≤800ms
14	Power-on output delay	3~8s
15	Power on/off overshoot	△V: ≤±5%
16	Output Dynamic Response	△V: ≤±5%
17	Dynamic response recovery time	≤200us
18	Parallel equalization of flow	Max. 4 units in parallel the current unbalance<5% when the load ≥50%

Protective Features

1	Input under-voltage protection	80±5Vac
2	Input under-voltage recovery	100±5Vac
3	Input over-voltage protection	290±5Vac
4	Input over-voltage recovery	270±5Vac
5	Output over-voltage protection	≥58Vdc
6	Output under-voltage protection	≤42Vdc
7	Output over-current protection	62.5±2A
8	Output short circuit protection	short-circuit can last for long period of time
9	Over temperature protection	85±5°C
10	Over-temperature recovery	75±5°C

Environmental Conditions

1	Operating temperature	-40°C ~ +55°C
2	Storage temperature	-40°C ~ +80°C
3	Relative Humidity	≤95%, non-condensing (40°C±2°C)
4	Shock and vibration	earthquake resistant up to intensity 9
5	Altitude	0-3000m (≥3000m Output voltage Derating)
6	Atmospheric pressure	76~106Kpa
7	Heat dissipation	natural heat dissipation with heatsink