

Integrated power

DYX-6000

supply

Features

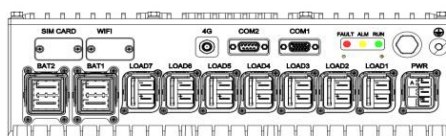
- ◆ Small-sized and light-weighted
- ◆ High power density
- ◆ Natural self-cooling design
- ◆ Wide input range: 90~280Vac
- ◆ Easy pluggable wiring
- ◆ Expandable up to 4 units
- ◆ Output disconnection by time or voltage setting
- ◆ IP65
- ◆ Multiple ways to install

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-6000 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. It is compact, light and concise. The aluminum shell with heatsink maximizes internal heat dissipation without additional cooling devices. DYX-6000 is used in combination with 4850Y as the backup lithium battery with a built-in BMS.



DYX-6000 (440 × 350 × 103mm)
~16kg

4850Y (425 × 185 × 310mm)
~28kg

Specifications

System

- | | | |
|---|---------------------|---|
| 1 | Dimension | 440*350*103 (mm) |
| 2 | Weight | ≤16kg |
| 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 voltage | 176±3Vac |
| 7 | Input current max | 38A |
| 8 | Input current inrush | ≤57A |

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	112.15A
4	Output current max	125±2A
5	Rated output power	6000W
6	Output efficiency	efficiency≥96%
7	Voltage stabilization accuracy	±0.6%
8	Line regulation	±0.1%
9	Load regulation	±0.5%
10	Output Ripple and Noise	≤300mVp-p
11	Temperature factor	±0.02%/°C
12	Output hold-up time	≥10ms
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 sharing unbalance<5% when the load rate≥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	≥59Vdc
6	Output under-voltage protection	≤42Vdc
7	Output over-current protection	126±2A
8	Output short circuit protection	short-circuit can last for long period of time
9	Over temperature protection	105±5°C
10	Over-temperature recovery	85±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