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[BATTERY DOC](#)

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[SALES](#)

# OTE-600 SERIES 600W/85-264VAC

**Distributed Power System, Hot Swap  
for N+1 Redundancy**

## APPLICATIONS

- Advanced Workstations
- Midrange Computers
- File Servers
- LAN/WAN Applications
- Raid Storage Equipment
- Cellular Site
- ADSL Application
- Network Application
- Asynchronous Transfer Mode Equipment



### 600W Model Table

Model Number	Output Voltage	Output Current (A)		Regulation	Ripple & Noise	Voltage Adj. Range
		Max.	Min.			
OTE-600-12	12V	40A	OA	1%	< 1%	>±5%
OTE-600-15	15V	40A	OA	1%	< 1%	>±5%
OTE-600-24	24V	25A	OA	1%	< 1%	>±5%
OTE-600-28	28V	21A	OA	1%	< 1%	>±5%
OTE-600-48	48V	12.5A	OA	1%	< 1%	>±5%

[Download OTE 600 Series Brochure](#)

- **Auxiliary Output:** 12V/1A or 5V/1A which output wattage is less than 12 W
- **Regulation:** of 12V at ±10%, 5V at ±5%
- **Floating Output:** All output isolated and floating with 500 Vdc isolation to GND.
- **Dynamic Response:** Less than 4% deviation with a 25% load charge, recovering to within 1% in less than 300 uS.
- **Voice Band Noise:** <32dBmC
- **OCP:** Foldback current limiting starting at approximately 110% of rated output.
- **OVP:** Power shutdown set at 130% of Nominal.
- **Short Circuit Protection:** All outputs
- **Overload Protection:** Output will tolerate a continuous short circuit with no damage to unit.
- **Remote Sense:** Up to 0.25V per wire
- **Current Sharing:** n+1 modules in a shelf will balance main outputs within ±5% of each other.
- **Insertion/Removal:** deviation <5% change on any outputs

## SPECIFICATIONS

- IU Pluggable
- Dimension: Inch(mm)
- Hot Plug Module:  
11.95(303.5)D x 5.00(127.0)W x 1.57(40.0)H
- 3-Module Rack:  
16.00(406.4)D x 16.88(428.8)W x 1.72(43.7)H
- Weight:
  - Hot Plug Module: 1,400gs (3.08 lbs)
  - 3-Module Rack: 6,000gs (13.20 lbs)
- High Efficiency up to 86 % at Nominal Line Full Load
- High Power Density: 6.1W/Cu. Inch
- Active Power Factor Correction
- Or-ing Diode & Current Sharing
- Front Panel Bicolor LED Indicators
- Switching Frequency: >150KHz
- Hold-Up Time: >20mS (600W output power)
- Turn-on Delay 2 Sec Max@120Vac

## AC INPUT SPECIFICATIONS

- Input Range 85~264 Vac Full Range
- Input Current 115Vac/6.5A, 230Vac/3.5A
- Frequency 47~63 Hz
- Power Factor 0.99 Active PFC per IEC1000-3-2
- Inrush Current:
  - 30A(pk)@ 115Vac, at cold
  - start 50A(pk)@230VAC
- Input Protection Internal 8A Fuse
- Input EMI Filter, conducted:
  - EN55022, Class B
  - FCC20780 pt. 15J, Class B
- Harmonic Distortion EN61000-3-2 compliant
- Input Immunity, Conducted:
  - Fast Transients, Line-Line ±2KV (EN61000-4-4 Level 3)
  - Surges, Line-Line ±1KV (EN61000-4-5 Level 2)
  - Surges, Line-Line ±2KV (EN61000-4-5 Level 3)

## SAFETY

- CSA 22.2 No. 234 Level 5
- UL 1950
- EN 60950

## EMC MEET

- EN 55022
- FCC 20780 pt 15J, Class B

## ENVIRONMENTAL SPECIFICATION

- Operating Temp. Range 0°C~70°C ambient
- Derating 50°C~70°C, 2.5% per °C Storage
- Temperature Range -40°C~85°C
- Operating Humidity 95% Non-Condensing
- Storage Humidity 5~95% RH, Non-Condensing
- Vibration/Shock Per MIL-HDBK-810E
- Temperature Coefficient ±0.02%/°C
- Cooling 2 integral ball bearing fans
- Acoustics 55 dBA (Sound Pressure Level 1M)
- Altitude -500~10,000feet
- Derating at 2°C/1000 feet, above 8,000 feet
- MTBF per MIL STD 217E >250,000 hours

## LED INDICATORS & STATUS SIGNALS

- **AC OK:** 5mS early warning min. before outputs, lose regulation full cycle ride thru 50Hz.
- **DC OK:** DC output is greater than ±10% of nominal, output signal goes low.
- **ESD:** IEC 1000-4-2 Level 4 Stand-alone
- **Voltage Margining:** Adjust Voltage level of this signal to vary the output voltage of power.
- Fan Fail (FF)
- High Temp. Warning (HTW)
- Over Temp. Alert (OTA)
- Remote On/Off (ROO)
- Inhibit (INH)

## SIGNAL CONTROL INFORMATION FOR MODULES-600 SERIES

### CONNECTOR PIN OUT DEFINE POSITRONIC/ASK20019-PA072

PIN No.	PIN Assignment	PIN No.	PIN Assignment
1	V+	15	INH-
2	V+	16	+5Vsb
3	RTN	17	INH+
4	V+	18	INL
5	RTN	19	DC-OK
6	RTN	20	I-MON
7	Inter-Lock 1	21	NC
8	I-Share	22	NC
9	RS+	23	F.G

**ISOLATION**

- Class I:
  - >3000 Vac Primary - Secondary
  - >1500 Vac Primary - Ground
  - >500 Vdc Secondary - Ground

10	+5V RTN	24	ACN
11	--5V	25	NC
12	AC-OK	26	NC
13	Inter-Lock 2	27	ACL
14	FF		

- Pin 7 Inter Lock-1/ Pin 13 Inter Lock-2 System is operating with short
- 2 Options for Power On/Off Control
  - Pin 15 INH-: Power is turned on with OPEN or GND, off with GND
  - Pin 17 INH+: Power is turned on with OPEN, off with 5V
  - Pin 18 INL: Power is turned on with +5V or OPEN, off with GND

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