

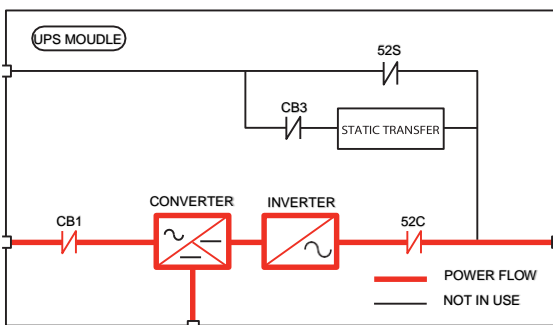
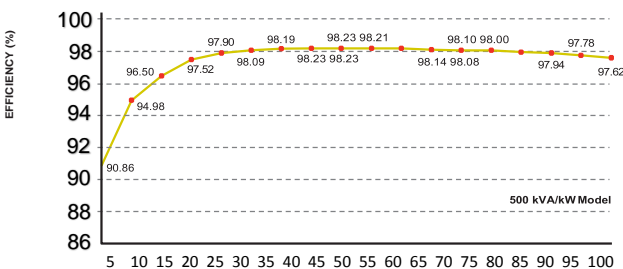
■ The 3-phase UPS for critical applications

High reliability and robust manageability

• The POWERTECH Tesla Series uninterruptible power system (UPS) is one of the world's first to utilize breakthrough silicon carbide (SiC) technology for improved performance. Advanced SiC power modules reduce conversion losses by nearly 50%, delivering an unprecedented 98% efficiency over a load range of 30-75%, while maintaining the same performance specifications as the renowned Toronado Series UPS.

Scalability and flexibility

- Remote monitoring of the system is available with the optional POWERTECH RemotEye® 4 multi-protocol (HTTP, HTTPS, SNMP, Modbus TCP, Modbus RTU, BACnet IP, BACnet MSTP) UPS monitoring solution.
- Highly Efficient and Compact
- Efficiency Profile Optimized for Partial Loading
- Unity Output Power Factor
- Bus Stub Terminals for Installation Flexibility
- Three-Phase/Three-Wire Input and Output



- Available in: 500 kVA/500 kW 750 kVA/750 kW
- Space-saving Compact Footprint (500 kVA 59.1" x 33.5" x 80.6") (750 kVA 84.7" x 33.5" x 80.6")
- True Online, Double-Conversion Technology
- Typical 98.2% AC-AC Efficiency
- Parallel Up to 8 Units
- Dual Input Design (Alternate Input for Bypass)
- All Digital Signal Processor Software
- Easily Accessible for Installation and Maintenance
- No Capacity Derating up to 40oC (104oF) and 1981 meters (6500 ft)
- RemotEye 4 Monitoring: HTTP(S), SNMP, Modbus RTU & TCP, BACnet MSTP & IP



Tesla Series (500-750) Kva

MODEL	Model Number	PTUTPS33L500	PTUTPS33L750
	Capacity	500 kVA	750 kVA
AC INPUT	Configuration	3-Phase, 3-Wire	
	Voltage	480 V +15% to -20%	
	Frequency	60 Hz ±10%	
	Reflected Current THDi	3% Typical at 100% Load (No Input Filter Required)	
		Configuration	3-Phase, 3-Wire
STATIC BYPASS INPUT	Voltage	480 V ±10%	
	Frequency	60 Hz ±5%	
BATTERY	Type	Lead Acid	
	Ride Through	Application Specific	
	Nominal Voltage	480 Vdc	
	Minimum Voltage	400 Vdc	
	Number of Cells	240	
	Configuration	3-Phase, 3-Wire	
	Voltage	480 V	
	Voltage Regulation	±1%	
	Frequency	60 Hz	
	Frequency Regulation	±0.01% in Free Running Mode	
AC OUTPUT	Power Factor	Unity (Nominal)	
	Power Factor Range	0.7 Lagging to 0.8 Leading (Within Output kW Rating)	
	Voltage THD	2% Maximum THD at 100% linear load. 5% maximum THD at 100% non-linear load.	
	Transient Response	±2% Maximum at 100% Load Step. ±1% Maximum at Loss/Return of AC Power ±5% Maximum at Load Transfer to/from Static Bypass	
	Transient Recovery Time	Less than 20ms	
	Voltage Unbalance	1% Maximum at 100% Unbalanced Load	
	Phase Displacement	1° Maximum at 100% Load	
	Inverter Overload	125% for 1 Minute; 150% for 10 Seconds	
	Bypass Overload	500% for 1 Cycle (with Bypass Available)	
	Cooling	Forced Air	
ENVIRONMENT	Operating Temperature	32°F to 104°F (0°C to 40°C). Recommended: 68°F to 86°F (20°C to 30°C)	
	Non-operating & Storage Ambient	-40°F to 158°F (-20°C to 70°C)	
	Relative Humidity	5% – 95% Non-Condensing	
	Altitude	0 to 6500 ft. (1981 m) No De-rating at 104°F (40°C)	
	Location	Indoor (Free From Corrosive Gases and Dust)	
	Paint Color	Munsell N1.5 (Black)	
	Clearance Required	Top: 24 in. (610 mm); Front: 40 in. (1016 mm); Rear: 0 in. (0 mm); Sides: 0 in. (0 mm) if Sidecars Used, 1 in. (25 mm) if No Sidecars Used	