

# DS 300T-IS1

## INDUSTRIAL UPS

30-100kVA

Working with less and flexible battery number

Internal regenerative load module (Optional)

7" Color TFT touch screen

Inverter isolation transformer

Bi-directional rectifier



TOWER



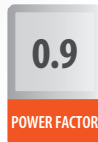
UPS ONLINE



SERVICE /  
TECH. SUPPORT



ECO FRIENDLY



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POWER FACTOR



Specially reinforced and designed as a complete system for industrial applications. With DSP technology, efficiency, reliability and functionality have been realised to levels unattainable with old analog technology. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision.

It provides safe operation for critical loads, especially for industrial applications, with its internal inverter isolation transformer and Bi-directional rectifier offered as standard. With the less number of batteries and flexible configuration provide significant savings in your system ownership costs, the safety of your devices and loads is at the highest level with smart battery management.

## GENERAL SPECIFICATIONS

- Separate DSP control for PFC and inverter
- High efficiency and fully digital structure
- Online true double conversion
- Small footprint design
- ECO mode operation (optional)
- Selectable input/output voltage/frequency range
- Split by-pass input (dual input)
- Bi-directional rectifier
- High input power factor
- Internal input, output, battery breakers
- Static and maintenance bypass switches
- Interactive battery breakers
- Working in harmony with the generator, generator contact input
- 3-Level battery protection
- High battery charging capacity
- Temperature compensated charge system
- Internal regenerative load module (Optional)
- Automatic and manual battery test
- In-Built inverter isolation transformer
- Advance communication features
- 7" Color TFT resistive touch panel (16M color)
- External REPO input
- 4MByte (175000 alarms) event data logs
- Clock and calendar (battery supported)
- 1 RS232 serial port and 4 dry contact output (12 optional)
- High protection (fuses, over heat, over current, DC leakage and over load)
- Maximum security with two level user and central service password
- Optional SNMP/MODBUS modules
- VNC Server, Easy Access 2.0 (VPN)
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production

## TECHNICAL SPECIFICATIONS

MODEL		DS300T-IS1				
Power (kVA)		30	40	60	80	100
INPUT						
Voltage		380/400 VAC 3P + N + G ± 20% (@ 100% load) / - 40% (@70% load)				
Frequency		50Hz / 60Hz, ± 10%				
Power factor (@100% load)		≥ 0.99				
THDI (*)		≤ 4%				
By-pass voltage		380/400 VAC 3 Phase + N, ± 10				
Protections		Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator, Input breaker contactor, Over voltage protection (Standard MOV / Optional SPD)				
OUTPUT						
Power (kW)		27	36	54	72	90
Power factor (**)		0.9				
Voltage		380/400 VAC 3P + N, ± 1% (optional 415 VAC)				
Frequency		50Hz / 60Hz				
Frequency tolerance		Line synchronized: ± 2% Standard (± 5% adjustable) / Free running: ± 0.1%				
Efficiency (@100% load)		91%			92%	
Crest factor		3:1				
Overload Capacity	Online	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass				
Other protections		Akıllı kısa devre koruması, Voltage tolerance protection, DC denge, Rejenerative load, Current limiting protections				
Voltage THD		≤ 1% (@ 100% linear load)				
BATTERIES						
Type		Maintenance-free dry type lead acid and Ni-CD				
Battery number		1x40 pieces (40- 48 pieces adjustable)				
End of discharge voltage (adjustable)		414 VDC (40 Batteries)				
Battery operation temperature		25°C				
Protection		3-level alarm, Battery fuses, Charging current limitation, Temperature compensated battery charging system (optional)				
Battery test		Standard every 72 hours (adjustable)				
GENERAL						
Standards		EN62040-1, EN62040-2, EN62040-3				
User interface		TFT 7" 800*480 with Resistive Touch Panel 16M Color, Buzzer				
Indicators		P-N voltage, P-P voltage, Current, DC Bus, Battery voltage, Power, Enerji Sayacı, Crest Factor, Frequency, PF, Service time				
Advanced		Self diagnostics, 3 maintenance time indicators, Calibration over RS232, Operating hour meter				
Communication		1xRS232 serial port , MODBUS RTU over RS485, MODBUS TCP, 4 standard and 8 optional DRY contact alarm relays				
Inputs		EPO input, Interactive battery panel input, Genset input				
Genset kit		Standard				
Alarm logging		Time & Date Alarm Logging, 4MByte (170.000 alarm)				
Protection		Power module over-temperature, Overcurrent, Temperature high alarm				
Operation temperature range		0°C - 40°C				
Protection degree		IP20 (***)				
Humidity		90% max. (non-condensing)				
Altitude		< 1000m above sea level				
Acoustic noise (@100% load)		<67dB		<69dB		<72dB
Net weight (kg)		298	426	495	579	587
Dimensions (mm) HxWxD		1040x400x930	1440x515x970			1770x825x970
OPTIONS						
Different input / output voltage		Please ask				
Transformer		Galvanic isolation transformer at the output (Standard)				
Software		VNC server, Easy Access 2.0 (VPN)				
Adaptors		SNMP, Remote monitoring panel, TCP/IP, GSM/GPRS Modem, Comport multiplexer				
Parallel operation		Up to 8 units				
Regenerative load module		Optional				
(*) Depending on power and input/output conditions						
(**) Please ask for PF 1.0						
(***) Ask for other IP options						