

DS 300T-IS1

INDUSTRIAL UPS

30-100kVA

Working with less and flexible battery number

7" Color TFT touch screen

Internal regenerative load module

Inverter isolation transformer

Bi-directional rectifier



TOWER



UPS ONLINE



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



0.9

POWER FACTOR



Specially reinforced and designed as a complete system for industrial applications. With DSP technology, efficiency, reliability and functionality have been raised 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, Bi-directional rectifier and internal regenerative load module 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
- 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-IS 1				
Power (kVA)		30	40	60	80	100
INPUT						
Voltage	380/400 VAC 3P + N + G \pm 20% (@ 100% load) / - 40% (@70% load)					
Frequency	50Hz / 60Hz, \pm 10%					
Power factor (@100% load)	\geq 0.99					
THDI (*)	\leq 4%					
By-pass voltage	380/400 VAC 3 Phase + N, \pm 10					
Protections	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequence 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, \pm 1% (optional 415 VAC)					
Frequency	50Hz / 60Hz					
Frequency tolerance	Line synchronized: \pm 2% Standard (\pm 5% adjustable) / Free running: \pm 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	\leq 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					
(*) Depending on power and input/output conditions						
(**) Please ask for PF 1.0						
(***) Ask for other IP options						