

# ENTERPRISE T-SERIES

## 5-20 KVA

### RELIABLE UPS FOR UNRELIABLE POWER

### INTELLIGENT, TRANSFORMER BASED ON-LINE UPS

(A PHYSICAL BARRIER BETWEEN YOUR VOLATILE INPUT AND THE SENSITIVE & EXPENSIVE LOAD)



- Low Frequency Online UPS
- True Double Conversion Online
- Wide Input range
- Suitable for Industrial Sites

True mixed load support including inductive load  
THD < 3%  
True Transformer based UPS  
Suitable for Industrial loads

Trusted  
Services  
since 1998



**COMPACT SYSTEMS (P) LTD.**  
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## COMPACT ENTERPRISE T SERIES – SINGLE PHASE OUTPUT ONLINE UPS – Why T series?

There is a never-ending debate on whether one should opt for Transformer-less UPS or Transformer-based UPS or Transformer-less UPS coupled with external isolation transformer.

In our experience we found that if the emphasis is on high-efficiency, then transformer-less UPS would certainly offer better efficiency. The smaller footprint and lighter weight of these UPS systems gives one an added advantage. The only disadvantage is that the service call rates is found to be higher than transformer-based topology due to very sensitive electronics involved.

Transformer-based UPS on the other hand may not match the efficiency levels of transformer-less UPS, but is capable of handling mixed-loads (resistive/inductive/capacitive). This topology has steadily improved over the decades in terms of design and control and have become refined. The component count also has decreased. The MTBF (the mean time between failures) is substantially higher in this topology as compared to other topologies.

Transformer-less UPS with external isolation transformer is not a substitute for a true-transformer-based UPS topology. This is available more to protect the UPS from input volatilities and also to some extent take care of the grounding issues. The cost of this topology with an addition of external transformer does not make it a wiser option.

Our conclusion: If the load to be supported is mixed load (capacitive/inductive/resistive) even of very less wattage, the ideal choice would be to opt for Transformer based UPS as the reliability of the UPS can be measured only after the same is deployed for about 2-3 years supporting the load.

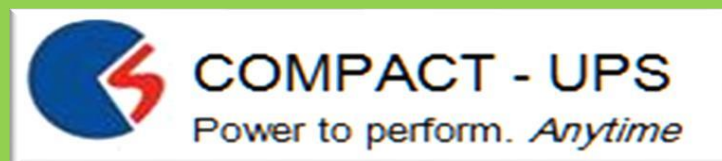
True Online Double Conversion Design  
Output Isolation Transformer  
Wide Input Voltage Range  
User Friendly Digital LC Display  
Advance Battery Management

Inbuilt High-Rated Charger enable Battery Back-up up to 2-10 Hrs.  
IGBT based charger for smart battery - management  
improved input power factor  
Cold Start Function  
High Crest Factor Circuit Design

Some of the applications where Transformer-based UPS performs better

Motor based applications  
Rice Sortex Machines  
Photographic Printing Machines/Photo colour Lab  
Robotic machines  
Wood carving machines  
Hospital OT (Operation Theatre)  
Pharma testing Lab Equipment

Industrial X-Ray machines  
Cinema Halls  
Large LED panel lighting and display units  
CT SCAN console machines  
Laser cutting machines  
UV/FLEX machine load  
Industrial Engineering / Manufacturing



## Technical Specifications of ENTERPRISE T SERIES 5 – 20 KVA

Capacity (kVA)	5 KVA	6 KVA	8 KVA	10 KVA	15- KVA 240 VDC 3:1	20 KVA 360 VDC 3:1
<b>INPUT</b>						
Voltage Range	160V~280V AC, Single Phase (3 Wire, L+N+PE)					
Frequency Range	(Hz) 50Hz ±10%					
<b>OUTPUT</b>						
Power Factor	0.8 (Standard), 0.9 (Optional)					
Voltage (V)	220V / 230V / 240V ±1% (L+N+PE)					
Frequency (Hz)	50Hz ±0.1%					
Waveform	Pure Sine Wave					
THDv	< 3% on Linear Load					
Efficiency	Up to 93%					
Overload	≤125% for 10 Min, ≥125% for 60 Sec, 150% for 1 Sec					
Isolation Transformer	Inbuilt Isolation Transformer					
<b>BATTERY</b>						
Battery Voltage	192V DC (168V and 180V DC Optional)- 15 KVA @ 240 VDC- 20 KVA @ 360 VDC					
Charging Current (Max)	1A ~ 10A Standard (High Rating Optional)					
Charging Time	< 10 Hrs. to 95%					
<b>SYSTEM FEATURES</b>						
Display	LCD	Input and Output Voltage, Input and Output Frequency, Load & Battery %				
	LED	Mains, AC Mode, DC Mode, Low Battery and Overload				
Alarm	Battery Low Voltage, Abnormal Power Supply, UPS Failure, Overload					
Protection	Battery Low Voltage, Overload, Short Circuit and Over/Voltage					
<b>ENVIRONMENT</b>						
Temperature	Operating: 0~50°C*, Storage: -10°C ~ 55°C					
Humidity / Altitude	0~95% RH Non-condensing / <1500 M					
Noise	Low Audible Noise Level					
<b>STANDARD</b>						
Quality	ISO 9000, ISO 14001, OHSAS 18001, ISO 27001, BIS, RoHS					
Safety	IEC/EN62040-1					
EMC / Protection	IEC/EN62040-2; IEC/EN62040-3, Complying to CE					
<b>PHYSICAL</b>						
Dimension WxDxH (mm)	250x550x500	250x550x500	280x615x685	280x615x685	350x650x795	350x650x795
Weight (Kg)	52	52	73	76	117	150

\*Specifications are subject to change without prior notice due to continuous improvements done through research and development.

**An ISO 9001:2015 Company**  
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