



# ERMES T

## Three Phase IGBT-based rectifier Uninterruptible Power Supply

THE ERMES T Series UPS With **IGPT-based rectifier DSP** technology and true on-line double conversion power protection are ideal for installations requiring high energy efficiency and maximum power available. ERMEST series provides exceptional operating efficiency (over more conventional thyristor rectifier-based systems), a compact footprint and easy maintenance access.



Data center



Medical  
equipment



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[www.itapower.it](http://www.itapower.it)

Made in Italy

## ERMES Three Phase Series (100KVA~600KVA)



- High efficiency of 96.5%
- Reduced weight for transformer based UPS;
- Compact size: e.g.: only 0.85 m2 for the ERT 250 kVA
- Distributed parallel configuration of up to 8 units per redundant (N+1) or power parallel system
- Centralized parallel system up to 7 units with centralized bypass system (MSB)
- Centralized bypass cabinet
- Battery care system
- Double load protection, both electronic and galvanic, towards the battery
- Complete Galvanic separation

## Technical Specifications

MODEL	ERT 100	ERT 120	ERT 160	ERT 200	ERT 250	ERT 300	ERT 400	ERT 500	ERT 600
INPUT									
Nominal Voltage	380-400-415 Vac three-phase + N								
Frequency	45-65 Hz								
Power Factor	≥ 0.99								
Harmonic Current Distortion	THDI ≤ 3%								
Soft Start	0-100% in 120" (selectable)								
Frequency Tolerance	±2% (Slectable from ± 1% to 5% from pannel control								
Standard equipment	Backfeed protection; separable bypass line								
OUTPUT									
Nominal Power KVA	100	120	160	200	250	300	400	500	600
Active Power KW	90	108	144	180	225	270	360	450	540
Number of phases	3+N								
Static Stability	± 1%								
Dynamic Stability	± 5% in 10 ms								
Nominal Frequency	50/60Hz (Selectable)								
Voltage Distortion	< 1% (Linear Load); < 3 % (Non-linear load)								
Overload	110% for 60', 125% for 10', 150% dor 1'								
BYPASS									
Nominal Voltage	380-400-415 Vac three-phase + N								
Nominal Frequency	50/60Hz (Selectable)								
BATTERY									
Battery Type	VLRA AGM/GEL/NiCd/Li-ion/super caps								
Ripple Current	Zero								
Recharge Voltage compensation	< 90% non- condensing								
INFO FOR ISOLATION									
Dimension, D X W X H	800 x 840 x 1900		1000 x 840 x 1900			1500 x 1000 x 1900		2100 x 840 x 1900	
Net Weight(kgs)	656	700	800	910	1000	1400	1700	2100	2400
Remot signal	Dry contacts (configurable)								
Remot control	EDS and bypass (configurable)								
Comunication	Double RS232+Dry contacts+2slot for comuncations interface								
Operation temperature	0°C/+40°C								
Humidity									
Noise Level@1 Meter	63-68 dBA				70-72dBA				
IP rating									
Smart active efficiency	up to 98,5%								
EMC/safety	Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2; (Voltage Frequency Independent) VFI - SS - 111								

Product specifications are subject to change without further notice

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