

The made in Italy **ERMES T** 100/600 Series UPS with **Transformer 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.

Data Center | Medical equipment | Industry | Sensitive IT loads | Telecom | Critical buildings

Ermes T IGPT

Three Phase
with Isolation Transformer & IGBT-based rectifier UPS

100KVA ~ 600KVA

www.itapower.it

Made in Italy

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Three Phase with Isolation Transformer & IGBT-based rectifier UPS

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highlights

- High efficiency (up to 95.5% in ON LINE mode)
- kW=KVA
- Rectifier IGBT based technology
- Galvanic isolation
- High overload capacity
- LCD display

ERMES T series provides exceptional operating efficiency (over more conventional thyristor rectifier-based systems), a compact footprint and easy maintenance access.

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Technical Specifications

MODELS	EI100	EI120	EI160	EI200	EI250	EI300	EI400	EI500	EI600
INPUT									
Rated voltage [V]	380 / 400 / 415 three-phase								
Voltage tolerance [V]	400 ±20% @ full load[1]								
Frequency [Hz]	45 - 65								
Power factor	>0.99								
Harmonic current distortion [THDi]	<3%								
Soft start	0 - 100% in 120 s (selectable)								
BYPASS									
Rated voltage [V]	380 / 400 / 415 three-phase + N								
Rated Frequency [Hz]	50 or 60 (selectable)								
Frequency tolerance	±2% (selectable from ±1% to ±5%)								
Standard equipment provided	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								
Rated voltage [V]	380[1] / 400 / 415 three-phase + N (selectable)								
Static stability	±1%								
Dynamic stability	EN 62040-3 class performance 1 non-linear load								
Voltage distortion	<1% with linear load / <3% with non-linear load								
Crest factor [Ipeack/Irms]	3:1								
Frequency stability on battery	0.05%								
Frequency [Hz]	50 or 60 (selectable)								
Overload	110% for 60 min; 125% for 10 min; 150% for 1 min								
BATTERIES									
Type	VRLA AGM/GEL/NiCd/Li-ion/SuperCaps								
Recharging method	One level, Two level, Cyclic recharge (selectable)								
Battery arrangement (parallel systems)	Separate/Common								
OVERALL SPECIFICATIONS									
Weight [kg]	700	755	830	956	1060	1500	1720	2525	2700
Dimensions (WxDxH) [mm]	800x850x1900		1000x850x1900			1500x1000x1900		2100x1000x1900	
Remote signals	1x opto insulated Input and 3x relays Outputs								
Auxiliary signals	R.E.P.O. - External manual bypass - External output switch								
Communications	UPS status LEDs - Graphic display - 2 slots for communications interface - 2x RS232								
Ambient temperature for the UPS	0 °C - +40 °C								
Recommended temperature for battery life	+20 °C - +25 °C								
Range of relative humidity	5-95% non-condensing								
Colour	RAL 7016								
Noise level at 1 m [dBA ±2] ECO Mode	65		68			72			
IP rating	IP20								
ECO Mode efficiency	up to 98%								
Standards	European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111								
Moving the UPS	Pallet jack								

[1] For wider tolerance conditions apply.

Ermes T IGPT

Technical Specifications

MODELS	EP100	EP120	EP160	EP200	EP250	EP300	EP400	EP500	EP600	EP800
INPUT										
Rated voltage [V]	380 / 400 / 415 three-phase									
Voltage tolerance [V]	400 ±20% @ full load									
Frequency [Hz]	45 - 65									
Power factor	>0.99									
Harmonic current distortion [THDi]	<3%									
Soft start	0 - 100% in 120 s (selectable)									
BYPASS										
Rated voltage [V]	380 / 400 / 415 three-phase + N									
Frequency [Hz]	50 or 60 selectable									
Frequency tolerance	±2% (selectable from ±1% to ±5%)									
Standard equipment	Backfeed protection; separable bypass l_{ine}									
OUTPUT										
Nominal power [kVA]	100	120	160	200	250	300	400	500	600	800
Active power [kW]	100	120	160	200	250	300	400	500	600	800
Number of phases	3 + N									
Rated voltage [V]	380[1] / 400 / 415 three-phase + N (selectable)									
Static stability	±1%									
Dynamic stability	EN 62040-3 class performance 1 non-linear load									
Voltage distortion	<1% with linear load / <3% with non-linear load									
Crest factor [Ipeak/Irms]	3:1									
Frequency stability on battery	0.05%									
Frequency [Hz]	50 or 60 (selectable)									
Overload	110% for 60 min; 125% for 10 min; 150% for 1 mi_n									
BATTERIES										
Type	VRLA AGM/GEL/NiCd/Li-ion/SuperCaps									
Recharging method	One level, Two level, Cyclic recharge (selectable)									
Battery arrangement (parallel systems)	Separate/Common									
OVERALL SPECIFICATIONS										
Weight [kg]	850	850	1010	1065	1300	1520	1670	2500	2830	3950
Dimensions (WxDxH) [mm]	800x850x1900		1000x850x1900			1500x1000x1900		2100x1000x1900		3200x 1000x 1900
Remote signals	1x opto insulated Input and 3x relays Outputs									
Auxiliary signals	R.E.P.O. - External manual bypass - External output switch									
Communication	UPS status LEDs - Graphic display - 2 slots for communications interface - 2x RS232									
Ambient temperature for the UPS	0 °C - +40 °C									
Recommended temperature for battery life	+20 °C - +25 °C									
Range of relative humidity	5-95% non-condensing									
Colour	RAL 7016									
Noise level at 1 m [dBA ±2] ECO Mode	65		68			72				
IP rating	IP20									
ECO Mode efficiency	up to 99%									
Standards	European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111									
Moving the UPS	Pallet jack									

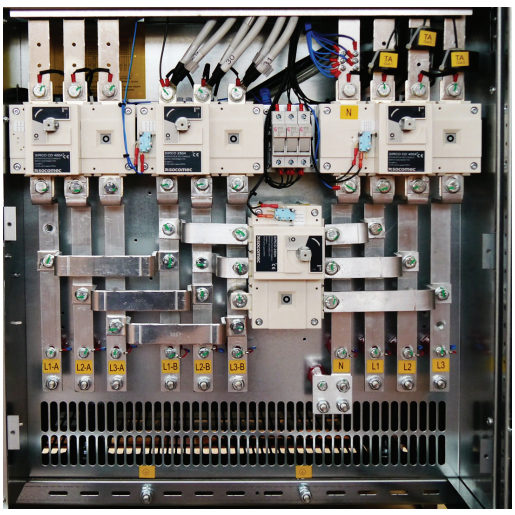
[1] For wider tolerance conditions apply.

Ermes T IGPT

Technical Specifications

MODELS	MS800	MS1200	MS1600	MS2000	MS3000
OPERATING SPECIFICATIONS					
Nominal power [kVA]	800	1200	1600	2000	3000
Rated voltage [V]	380 / 400 / 415 three-phase + N				
Voltage tolerance	±15% (selectable from ± 10% to ±25%)				
Frequency [Hz]	50 / 60				
Frequency tolerance	±2% (selectable from ±1% to ±6%)				
Standard equipment provided	Backfeed protection				
Permitted overload [1]	110% for 60 min; 125% for 10 min; 150% for 1 min				
OVERALL SPECIFICATIONS					
Weight [kg]	-	800	1100	1200	2000
Weight SW [2] version [kg]	570	1000	1610	-	-
Dimensions (WxDxH) [mm]	-	1400x1000x1900	2200x1000x1900	2200x1000x1900	3600x1000x1900
Dimensions SW [2] version (WxDxH) [mm]	1000x1000x1900	1800x1000x1900	3000x1000x1900	-	-
Remote signals	1x opto insulated Input and 3x relays Outputs				
Auxiliary signals	R.E.P.O. - External manual bypass - External MSB output switch - External system output switch				
Communications	MSB status LEDs - Graphic display - 2 slots for communications interface - 2x RS232				
Ambient temperature for the MSB	0 °C - +40 °C				
Recommended temperature for battery life	+20 °C - +25 °C				
Range of relative humidity	5-95% non-condensing				
Colour	RAL 7016				
Noise level at 1 m [dBA ±2]	<65				
IP rating	IP20				
Standards	European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant				
Moving the UPS	Pallet jack				

[1] Conditions apply.
[2] SW version includes input, output and manual bypass switches.



Mains, Bypass and Load connections

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Italian Cutting-Edge solutions