



The made in Italy ERMES C Series UPSs are ideal for all applications where a critical load has to be protected, from the simplest to the most complex installations, when the need for reliability and easy maintenance is most important.



Data Center



Medical  
equipment



Industry 4.0



Sensitive  
IT loads



Transportation



Critical  
buildings

# Ermes C

**UPS On-Line three phase 3/3, 3/1 and 1/1**

**10KVA ~ 80KVA**

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

Made in Italy

# Ermes C

## UPS On-Line three phase 3/3 - 3/1 - 1/1 10KVA ~ 80KVA



The ERMES Compact, for its versatility and small foot print, is suitable for high quality protection for sensitive devices, such as Network, Small Calculation Centers, Servers, Telecommunications. Appliances and industrial application in general in critical situations.

### highlights

- ① HIGH EFFICIENCY, up to 98%
- ① UNITY POWER FACTOR PF.1
- ① ECO FUNCTION FOR THE ENERGY SAVING
- ① 50/60 Hz FREQUENCY CONVERTER FUNCTION
- ① REDUNDANT PARALLEL OPERATION
- ① POWER FACTOR CORRECTION ON ALL PHASES
- ① CHARGER POWER ADJUSTABLE, UP TO 24A
- ① BATTERY VOLTAGE ADJUSTABLE
- ① EMERGENCY POWER OFF (EPO) FUNCTION
- ① 10-20KVA EASY SETTABLE IN 3/3 - 3/1 - 1/1 BY LCD

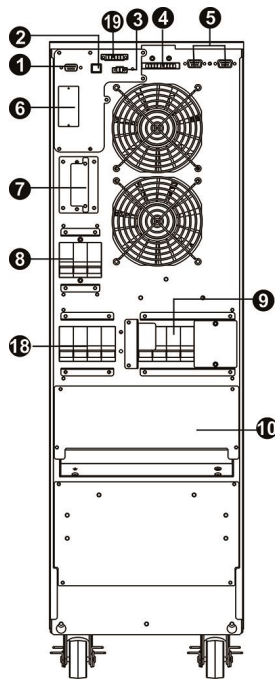


MODEL		ERC10	ERC15-ERC20	ERC30	ERC40
PHASE		3-1phase in/3-1phase out *		3-phase in/3-phase out	
POWER		10 KVA / 10 KW	15KVA / 15KW - 20KVA / 20KW	30 KVA / 30 KW	40 KVA / 40 KW
INPUT					
Nominal voltage		3 x 400Vac (Triphase with neutral on earth)			
Volt Range		305-478 VAC (F/F) @ 100% of charg			
		190-520 VAC (F/F) @ 50% of charge			
Range Frequency		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz			
Phases		Triphase with neutral on earth			
Power factor P.F.		≥ 0.99 @ 100% of charge			
OUTPUT					
Output voltage		3 x 360*-380-400-415V Triphase with neutral		3 x 360*-380-400-415V Triphase with neutral	
		1 x 208–220–230–240V Monophase			
Tolerance Volt (Batt. Mode)		± 1%			
Frequency(Range di sincronizzazione)		46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz			
Frequency(Range Batt. Mode)		50 Hz ± 0.1 Hz o 60 Hz ± 0.1 Hz			
Crest current Ratio		3:01			
Harmonidistortion		≤ 2 % THD (linear charge) ≤ 5 % THD (not linear charge)			
Intervention time	Line to battery	Zero			
	Inverter to bypass	Zero			
Wave form (Batt. Mode)		SINUSOIDAL PURE			
Overcharge	Line mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately			
	Battery mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately			
EFFICIENCY					
With present line		95.50%			
With power from eco mode		98%			
With power from batteries		94.50%			
BATTERY					
Battery type		12 V / 9 AH		12 V / 7 AH	12 V / 9 AH
Battery number		2 // 10 +10	16+16 or 20+20	2 // 16+16 or 2 // 20+20	
Typical recharging time		9 ore 90% capacity			
Charge current (max.)		1.0 A ~ 12.0 A adjustable			
Charging Voltage		+/- 136.5 VDC +/- 10%	+/- 218 VDC +/- 10%		
INDICATORS					
Panel LCD		4.3"colored Touch condition UPS, charge level, battery level, Voltage input/output,			
		discharge time batt. Fault condition			
DIMENSIONS AND WEIGHTS					
Dimension, P x L x	H (mm)	626 X 250 X 750		815 X 300 X 1000	
Nett weight (kg)		124	139	225	250
Dimension, P x L x	H (mm)	626 X 250 X 750		815 X 300 X 1000	
Nett weight (kg)		28	43	60	61
ENVIRONMENTAL DATA					
Operating humidity		0-90 % RH @ 0 - 40°C (without condense)			
Noise		< 60dBA @ 1 Metr	< 65 ~ 70 dB @ 1 Metr		
IP Rating		IP 20			
INTERFACE					
USB		Windows family, Linux, Unix and MAC			
Optional SNMP		Power management per SNMP manager e web browser			

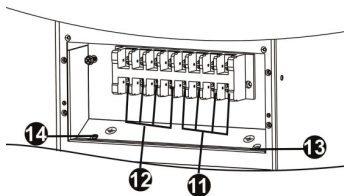
\* 3 IN / 1 OUT or 1 IN / 1 OUT should be requested on order stage

Product specifications are subject to change without further notice.

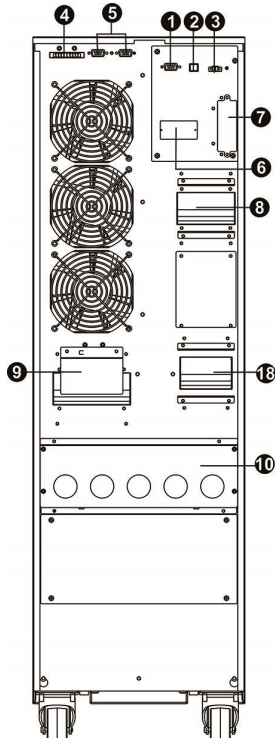




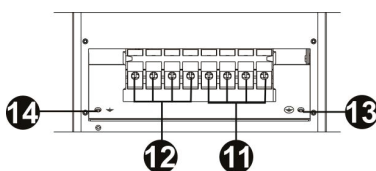
10K / 15K / 20K Rear Panel



10K / 15K / 20K  
Input/Output Terminal

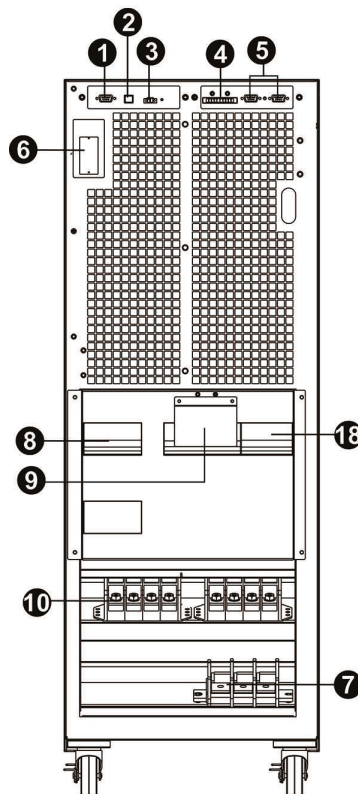


30K / 40K Rear Panel

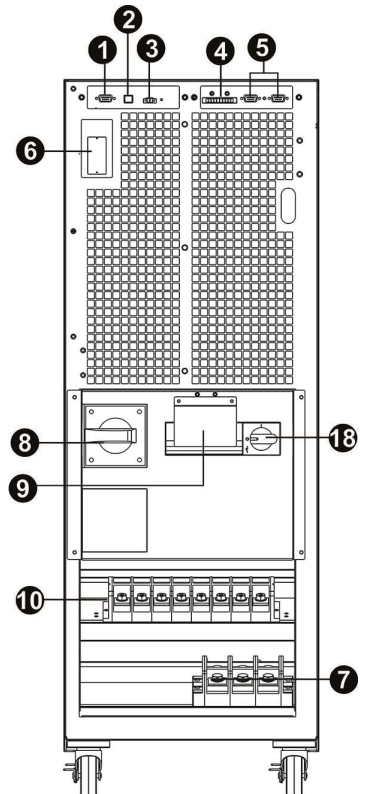


30K / 40K Input/output terminal

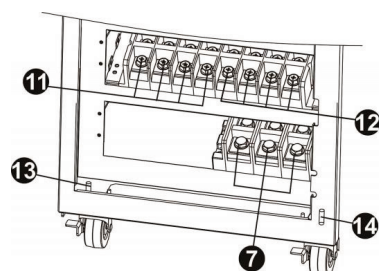
1. RS-232 communication port
2. USB communication port
3. Emergency power off function connector (EPO connector)
4. Share current port (only available for parallel model)
5. Parallel port (only available for parallel model)
6. Intelligent slot
7. External battery connector/terminal (Only available for long-run model)
8. Line input circuit breaker/switch
9. Maintenance bypass switch (option)
10. Input/Output terminal (Refer to diagram 3, 4, 7, 8 and 13 for the details)
11. Line input terminal
12. Output terminal
13. Input grounding terminal
14. Output grounding terminal
15. Bypass input circuit breaker/switch
16. Bypass input terminal
17. Grounding terminal
18. Output switch
19. Dry contact communication port (optional)



60K front view with door open



80K front view with door open



60K / 80K Input/Output Terminal

MODEL		ERC60	ERC80
PHASE		3-phase in/3-phase out	
POWER		60 KVA / 60 KW	80 KVA / 80 KW
INPUT			
Nominal Voltage		3 x 400Vac (Triphase with neutral on earth)	
Voltage Range		305 - 478 VAC (F/F) @ 100% of charge	
		190 - 520 VAC (F/F) @ 50% of charge	
Frequency Range		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Phase		(Triphase with neutral on earth)	
Power factor P.F.		≥ 0.99 @ 100% of charge	
OUTPUT			
Output voltage		3 x 360* - 380 - 400 - 415V Triphase with neutral	
Tolerance Volt (Batt. Mode)		± 1%	
Frequency (Range of syncro)		46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz	
Frequency(Range Batt. Mode)		50 Hz ± 0.1 Hz o 60 Hz ± 0.1 Hz	
Crest current Ratio		3:01	
Harmonic distortion		≤ 2 % THD (linear charge) ≤ 5 % THD (not linear charge)	
Intervention time	Line to battery	Zero	
	Inverter to bypass	Zero	
Wave form (Batt. Mode)			
Overcharge	Line mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately	
	Battery mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately	
EFFICIENCY			
With present line		95.50%	
With power from eco mode		98%	
With power from batteries		94.50%	
BATTERY			
Battery type		It depends on the capacity of the external batteries according to the required autonomy	
numbers		32 ~ 40 adjustable	
Charge current (max.)		2 A ~ 24 A adjustable	
Charging Voltage		+/- 13.65 VDC +/- 10% x N ( N = 16 ~ 20 batt)	
INDICATORS			
Panel LCD		4.3" colored Touch, condition UPS, charge level, battery level, Voltage input/output,	
		discharge time batt. Fault condition	
DIMENSIONS AND WEIGHTS			
Dimensioni, P x L x H (mm)	Dimensions, P x L x H (mm)	815 X 300 X 1000	
	Nett weight (kg)	108	113
ENVIRONMENTAL DATA			
Operating humidity		0-90 % RH @ 0- 40°C (without condensens)	
Noise		< 70dBA @ 1 Metr	< 75 dB @ 1 Metr
INTERFACE			
USB		Windows family, Linux, Unix and MAC	
Optional SNMP		Power management per SNMP manager e web browser	

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