



MULTI NET

3:1 10 - 30 kVA

3:3 10 - 200 kVA



EMERGENCY



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ONLINE

Emmerich's Multi Net series is a UPS range featuring high-performance, On-line double conversion (VFI) technology UPS with a output power factor 0.8. It's designed in small footprints with DSP technology and active input power factor correction design to ensure better and reliable output voltage conditions, power quality and power performance at all times, at the same time, achieves significant energy and financial savings in terms of installation and operating costs.

Emmerich's Multi Net series is ideal for protecting IT Networks, data centres, telecommunications systems, and critical systems in general. Emmerich's Multi Net series is available in 10 - 20 - 30 kVA models with three-phase input and single phase output, and 10 - 20 - 30 - 40 - 60 - 80 - 100 - 120 - 160 - 200kVA models with three-phase input and output. The Emmerich's Multi Net series provides maximum adaptability, the possibility of parallel redundant expansion and extensive communication options via the built-in USB HID interface,

an intelligent slot for SNMP cards or relays and a wide range of software packages available – free monitoring version downloadable for Windows, Linux, Unix or Mac and packages available for multi servers or virtualised systems. Finally, also worth noting is the unit's lightweight design and reduced dimensions, enabling it to be easily installed and ensuring that footprint is minimal.

PERFORMANCES

- True double-conversion.
- Adjustable battery design.
- Output power factor 0.8
- Maintenance bypass available.
- Optional N+X parallel redundancy.
- Emergency power off function (EPO).
- 50Hz/60Hz frequency converter mode.
- ECO mode operation for energy saving.
- DSP technology guarantees high reliability.
- Active power factor correction in all phases.
- SNMP+USB+RS-232 multiple communications.
- Smart battery charger design to optimize battery performance.

MODEL	MNM 10 (ER)	MNM 20 (ER)	MNM 30 (ER)	MNT 10 (ER)	MNT 20 (ER)	MNT 30 (ER)	MNT 40 (ER)	MNT 60	MNT 80	MNT 100	MNT 120	MNT 160	MNT 200	
PHASE (IN/OUT)	3 PHASE / 1 PHASE						3 PHASE / 3 PHASE							
CAPACITY*	10 KVA / 8 KW	20 KVA / 16 KW	30 KVA / 24 KW	10 KVA / 8 KW	20 KVA / 16 KW	30 KVA / 27 KW	40 KVA / 36 KW	60 KVA / 54 KW	80 KVA / 72 KW	100 KVA / 90 KW	120 KVA / 108 KW	160 KVA / 144 KW	200 KVA / 180 KW	
INPUT														
Nominal Voltage	3 x 400 VAC (3Ph+N)													
Voltage Range	190-520 VAC (3-phase) @ 50% load ; 305-478 VAC (3-phase) @ 100% load						208-478 VAC (3-phase) @ 70% load 305-478 VAC (3-phase) @ 100% load							
Frequency Range	46 ~ 54 Hz or 56 ~ 64Hz										40 ~ 70Hz			
Power Factor	≥ 0.99 @ 100% Load													
OUTPUT														
Output Voltage	208/220/230/240 VAC (1Ph+N)						3 x 380/400/415 VAC (3Ph+N)							
Voltage Regulation	± 1 %													
Frequency Range (Synchronized Range)	46 ~ 54Hz or 56 ~ 64Hz													
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz													
Current Crest Ratio	3:1													
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)													
Transfer Time	AC Mode to Battery Mode						Zero							
	Inverter to Bypass						Zero							
Waveform (Batt. Mode)	Pure Sinewave													
Overload	AC Mode						100-110% for 10 min, 110-130% for 1 min, >130% for 1 second						105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms	
	Battery Mode						100-110% for 30 seconds, 110-130% for 10 seconds, >130% for 1 second							
Parallel Capacity	No						up to 3 units in parallel				up to 2 units in parallel			
EFFICIENCY														
AC Mode	93%						94.0%				94.5%			
ECO Mode	96%						97.0%				98.0%			
Battery Mode	92%						93.5%				94.5%			
BATTERY														
Standard Model	Battery Type	12 V / 9 Ah						12 V / 7 Ah	12 V / 9 Ah					
	Numbers	16~20 pcs	16~20 pcs x 2 strings	16~20 pcs x 3 strings	16~20 pcs	16~20 pcs x 2 strings	(16+16) pcs x 2 strings							
	Typical Recharge Time	9 hours recover to 90% capacity												
	Charging Current (max.)	1 A	2 A	4 A	1 A	2 A								
	Charging Voltage	+/- 273 VDC						+/- 218 VDC						
Long-run Model**	Battery Type	Depending on the capacity of external batteries												
	Numbers	16 ~ 20 pcs (Adjustable)						32 ~ 40 pcs (Adjustable)						
	Charging Current (max.)	4 A	8 A	12 A	4 A				8 A	24 A	32 A	40 A	48 A	
	Charging Voltage	+/- 13.65V x N (N=16~20)						+/- 13.7V*N (N = 16~20)						
INDICATORS														
LCD	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions										5.7" monochrome LCD or 10" Touch Type color LCD			
ALARM														
Battery Mode	Sounding every 4 seconds										Sounding every 2 seconds			
Low Battery	Sounding every second										Sounding every 0.5 second			
Overload	Sounding twice every second										Sounding every second			
Fault	Continuously sounding													
PHYSICAL														
Standard Model	Dimension, D x W x H(mm)	592 x 250 x 576	815 x 250 x 826	815 x 300 x 1000	815 x 250 x 826		815 x 300 x 1000		N/A					
	Net Weight (kgs)	83	164	234	109	164	205	230						
Long-run Model**	Dimension, D x W x H(mm)	592 x 250 x 576		815 x 250 x 826	592 x 250 x 826		815 x 300 x 1000		790 x 360 x 1010		940 x 567 x 1000		1040 x 567 x 1442	
	Net Weight (kgs)	28	40	64	38	40	60	61	108	113	194	229	301	335
ENVIRONMENT														
Operation Temperature	0-40°C													
Operation Humidity	< 95% and non-condensing													
Noise Level	Less than 60dB @ 1 meter						Less than 70dB @ 1 Meter					Less than 73dB @ 1 Meter		
MANAGEMENT														
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows2 7/8/10, Linux and MAC													
Optional SNMP	Power management from SNMP manager and web browser													

*1-3KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC 6-10KVA:
 Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC
 **Long-run model is only available in 200/208/220/230/240VAC systems (200VAC system only available for 1-3KVA).
 Product design, colour and specifications are subject to change without further notice.



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