

# MASTER PRO

**1:1 6000 - 10000VA**



Master Pro is an on-line double conversion UPS which embedded with isolation transformer. Master Pro series will eliminate common mode noise and the need to install expensive dedicated circuits. The Master Pro series is available in 6-7,5-10 kVA models with single phase input and single phase output. The Emmerich's Master Pro series is one of the most reliable, high-performance one-phase Uninterruptible Power Supply system (UPS) on the market,

and provide maximum protection with reliable galvanically isolated power and power quality for mission critical loads, including data centres, industrial processes, telecommunications, security and electro-medical systems. In terms of status information, each Master Pro has a built-in with an LCD display to show input and output voltages, load, UPS operating status information and battery charge status.

Plus, the Master Pro series have extensive monitoring and 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.



## PERFORMANCES

- Online double-conversion.
- Output power factor 0.8
- DSP technology guarantees high reliability.
- True galvanic isolation transformer design.
- Galvanic isolation and control designed to withstand all kinds of loads.
- Fully coating PCB to withstand harsh environment.
- Unique ventilation design for effective heat dissipation.
- Wide input voltage and frequency range to withstand robust environment.
- High short-circuit and overload capabilities.
- Build-in maintenance bypass switch.
- Intelligent battery management to prolong battery lifecycle.
- Variety of communication options available.

MODEL	MAP 6 ER		MAP 7.5 ER		MAP 10 ER	
PHASE	Single phase with ground					
CAPACITY	6000 VA / 4800 W		7500 VA / 6000 W		10000 VA / 8000 W	
<b>INPUT</b>						
Nominal Voltage	208 VAC/220 VAC/230 VAC					
Voltage Range	165VAC ~ 285VAC @ 16 pcs of batteries 185VAC ~ 285VAC @ 18 pcs of batteries					
Frequency	40 Hz ~ 55 Hz @ 50 Hz system 56 Hz ~ 64 Hz @ 60 Hz system					
<b>OUTPUT</b>						
Output Voltage	208 VAC/220 VAC/230 VAC					
Voltage Regulation	± 1%					
Frequency Range (Synchronized Range)	45 Hz ~ 55 Hz or 56 Hz ~ 64 Hz					
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1					
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)					
Transfer Time	AC to DC	Zero				
	Inverter to Bypass	Zero				
Waveform (Batt. Mode)	Pure Sinewave					
<b>EFFICIENCY</b>						
AC Mode	90%					
Battery Mode	92%					
<b>EXTERNAL BATTERY</b>						
Number	16 pcs	18 pcs	16 pcs	18 pcs	16 pcs	18 pcs
Charging Current (max.)	Default : 8 A ± 10%; Max : 2A, 4A, 8A(Adjustable)					
Charging Voltage	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1%	245.7 V ± 1%	218.4 V ± 1%	245.7 V ± 1%
<b>INDICATORS</b>						
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators					
<b>ALARM</b>						
Battery Mode	Sounding every 4 seconds					
Low Battery	Sounding every second					
Overload	Sounding twice every second					
Fault	Continuously sounding					
<b>PHYSICAL</b>						
Dimension, D x W x H(mm)	562 x 250 x 830					
Net Weight (kgs)	62		78		86	
<b>ENVIRONMENT</b>						
Operating Temperature	0 ~ 50°C (battery life cycle will be shorten when temperature is above 25°C)					
Operating Humidity	< 95 % and non-condensing					
Noise Level	Less than 60dBA @ 1 Meter					
<b>MANAGEMENT</b>						
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC					
Dry Contact	Five signals: AC failure, low battery, UPS alarm, bypass and UPS fault					
Optional SNMP	Power management from SNMP manager and web browser					

Product design, colour and specifications are subject to change without further notice.



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