

***machpower***®



**DATASHEET**

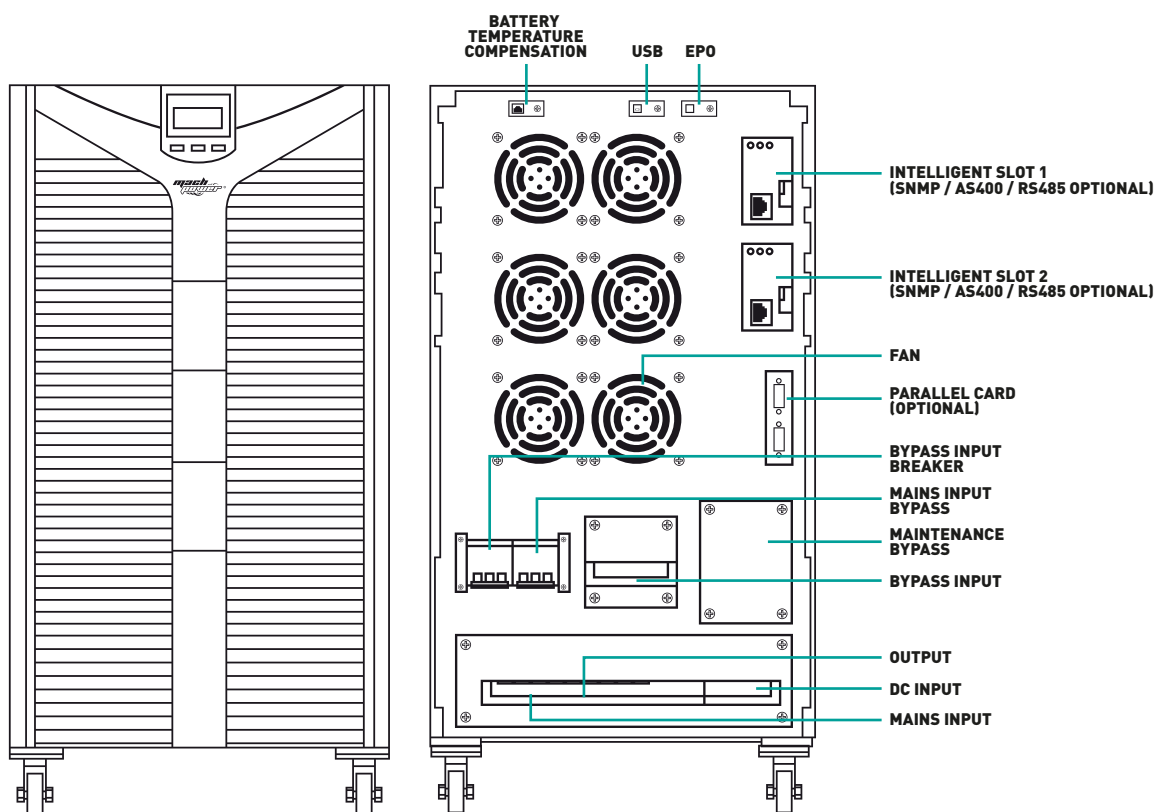
UPS ONLINE THREE PHASE

10KVA ~ 30KVA

MOELLO: UPS-TRI10K / UPS-TRI20K / UPS-TRI30K

# FEATURES

- High frequency and true online double-conversion
- DSP digital control technology
- Input power factor correction (PFC)
- Wide input voltage range (190V - 485V)
- Output power factor 0.9
- Excellent load-carrying capability, linear derating between 50% and 100% load at 190 - 277 Vac
- Optimized battery configuration: 192V / 240V
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- 50 / 60Hz frequency conversion mode
- Selectable output voltage via LCD
- Selectable battery shutdown voltage (EOD) via LCD
- Power-on self test
- Advanced battery management (ABM)
- Short circuit and overload protection
- Automatic charging in OFF mode
- Auto control fan speed when loads varies
- Dual input
- Advanced quick charge technology, charging speed is increased double
- Configurable transfer time from battery to mains power, reducing the impact on grid or generator
- Automatic startup/shutdown function (optional), automatic transfer to bypass at light load, automatic restart at acting load; energy-saving and environment-friendly
- Standard USB communication port
- Standard emergency power off (EPO)
- Standard maintenance bypass
- Optional extension battery bank
- Optional RS485 | SNMP | AS400 communication port
- Optional N+X redundancy parallel up to 6 units
- Optional battery temperature compensation



# SPECIFICATION

MODEL	UPS-TRI10K	UPS-TRI20K	UPS-TRI30K
Capacity	10KVA / 9KW	20KVA / 18KW	30KVA / 27KW
<b>INPUT</b>			
Rated voltage	360 V / 380V / 400 V / 415 Vac		
Voltage range	277 - 485 Vac (no derating)		
	190 - 277Vac (linear derating between 50% and 100% load)		
Rated frequency	50 / 60 Hz (auto-sense)		
Frequency range	40 ~ 70 Hz		
Power factor	≥ 0.99		
Total harmonic distortion THDI	≤ 5%		
Bypass voltage range	-40% - + 15% (settable)		
<b>OUTPUT</b>			
Voltage	360 V / 360 V / 400 V / 415 Vac (settable)		
Voltage regulation	± 1%		
Frequency	Synchronized with utility in mains mode; 50 / 60 ± 0.1Hz in battery mode		
Waveform	Sinusoidal		
Crest factor	3:1		
Total harmonic distortion THDV	≤ 2% (linear load); ≤ 5% (non-linear load)		
Transfer time	Mains mode to battery mode: 0ms; Inverter mode to bypass mode: 0ms		
Inverter overload capability	102% - 125%: transfer to bypass in 10 mins;		
Bypass overload capability	125% - 150%: transfer to bypass in 1 min;		
	> 150%: transfer to bypass in 0.5 s		
<b>BATTERIES</b>			
DC voltage	240 Vdc; Long time model: 192 Vdc		
Inbuilt battery space *	40 x 9Ah	40 x 7/9Ah	60 x 7/9Ah
Typical recharge time	4 Hours		
<b>SYSTEM</b>			
Efficiency	≥ 93%, ECO mode 96%		
Display	LCD+ LED		
Alarm	Battery mode, low battery, fans fault etc.		

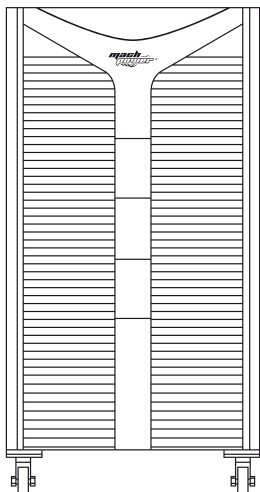
\* battery not included

MODEL	UPS-TRI10K	UPS-TRI20K	UPS-TRI30K
Max. parallel numbers	6		
EMI	IEC I EN62040-2		
EMS	IEC61000-4-2 (ESD)		
	IEC61000-4-3 (RS)		
	IEC61000-4-4 (EFT)		
	IEC61000-4-5 (surge)		
<b>COMMUNICATIONS</b>			
RS485 / USB I dry contacts	Supports Windows 98 / 2000 / 2003 /XP /Vista/ 2008 / 7 / 8 / 10		
SNMP (optional)	Power management from SNMP manager and web browser		
<b>OTHERS</b>			
Humidity	20 - 90% RH@ 0 ~ 40°C (non-condensing)		
Noise level	≤ 60 dB (1m)	≤ 65 dB (1m)	≤ 65 dB (1m)
Dimensions (WxDxH)	350 x 785 x 868 mm	350 x 785 x 1078 mm	350 x 785 x 1078 mm
Packaged dimensions (WxDxH)	472 x 910 x 1050 mm	472 x 910 x 1260 mm	472 x 910 x 1260mm
Net weight (kg)	115	175	235
Gross weight (kg)	125	190	250

- Derate capacity to 90% when the output voltage is adjusted to 208Vac.

## ACCESSORY

**External Battery Cabinet for Long Backup (with battery cable and battery breaker)**



MODEL	UPS-BCTRI	UPS-BCTRI-38A
Dimension (WxDxH)	350 x 785 x 1078mm	950 x 450 x 610mm
Battery Capacity	7groups of 20pcs 7/9Ah	16/20pcs 38Ah