



100 Series

MODEL	102	103	105	106	107	110	115
Power (kVA)	2	3	5	6	7,5	10	15
INPUT							
Voltage	230 Vac, +/- 15%						
By-pass Voltage	230 Vac, +/- 10%						
Current	13A	19A	30A	35A	44A	58A	87A
Input frequency	50 Hz (60Hz on request), +/- 5%						
EMI	EN50091-2 Class A.						
OUTPUT							
Power (kW)	1,4	2,1	3,5	4,2	5,25	7	10,5
Power factor	0,7						
Voltage	230 Vac, +/- 1%						
Frequency	50 Hz (60Hz on request)						
Frequency tolerance	+/- 2% (line synchronized)						
Efficiency at 100% load	85-87%					86-90%	
Crest factor	3:1						
Overload protection	100% - 125% load: 10 min. 125% - 150% load: 1 min. > 150% load: by pass						
Short circuit protection	Electronic short circuit protection						
Total harmonic distortion (THD)	< 3%						
Communication	Dry contacts & RS232						
BATTERIES							
Type	Sealed Lead Acid - Maintenance Free						
Number of Batteries	14		16		20		
Float Charging voltage	189 VDC		216 VDC		270 VDC		
End of discharge voltage	140 VDC		160 VDC		200 VDC		
Battery cabinet	Internal						External
Battery ambient temperature °C	25 C						
Battery protection	Automatic circuit breaker						
Battery test	Optional						
GENERAL							
Software	T-Mon UPS Management Software						
Temperature range	0 C - 40 C						
Relative humidity	90% max. (non condensed)						
Protection degree	IP20						
Altitude	< 1000 m above sea level						
Acoustic noise	< 45 dBA		< 50 dBA				< 55 dBA
Weight without Batteries (kg)	50	55	60	74	77	91	112
Dimensions (mm) HxWxD	540x265x560		585x265x600		710x265x740		
OPTIONS							
Input transformer	Galvanic isolation transformer at the input						
PFC	Input Power Factor Corrected to >= 0.98						
MBS	Maintenance by-pass switch for complete isolation						
Parallel operation	N+1 Systems (hot standby, redundant, symmetric parallel)						

Accessories

Net Agent II :	SNMP (int. card or ext. with adapter)	MD-1 :	Modbus over RS485 interface
RM2000 :	Remote monitoring panel	MD-NET :	Modbus over TCP interface
ML-100 :	Communication port multiplier	RSC-24 :	RS232/RS485 converter
US-4 and US-8 :	Multiple server shut-down unit		



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200 Series

MODEL	206	207	210	215	220	230
Power (kVA)	6	7.5	10	15	20	30
INPUT						
Voltage	230/400 Vac 3 phase + N, +/- 15%					
By-pass Voltage	230 Vac, +/- 10%					
Current	3x12A	3x15A	3x20A	3x30A	3x40A	3x60A
Input frequency	50 Hz (60Hz on request), +/- 5%					
EMI	EN50091-2 Class A.					
OUTPUT						
Power (kW)	4.2	5.25	7	10.5	14	21
Power factor	0.7					
Voltage	230 Vac, +/- 1%					
Frequency	50 Hz (60Hz on request)					
Frequency tolerance	+/- 2% (line synchronized)					
Efficiency at 100% load	+/- 0.2% (free running)					
Crest factor	86-90%					
Overload protection	3:1					
Short circuit protection	100% - 125% load: 10 min.					
Total harmonic distortion (THD)	125% - 150% load: 1 min.					
Communication	> 150% load: by pass					
BATTERIES	Electronic short circuit protection					
Type	Sealed Lead Acid - Maintenance Free					
Number of Batteries	20			30		
Float Charging voltage	270 VDC			405 VDC		
End of discharge voltage	200 VDC			300 VDC		
Battery cabinet	Internal					
Battery ambient temperature °C	25 C					
Battery protection	Automatic circuit breaker					
Battery test	Optional			Automatic every 72 hrs		
GENERAL						
Software	T-Mon UPS Management Software					
Temperature range	0 C - 40 C					
Relative humidity (non condensed)	90% max.					
Protection degree	IP20					
Altitude	< 1000 m above sea level					
Acoustic noise	< 50 dBA				< 55 dBA	
Weight without Batteries (kg)	106	110	125	190	200	230
Dimensions (mm) HxWxD	950x265x740		1225x505x650			
OPTIONS						
Input transformer	Galvanic isolation transformer at the input					
Input THD *	<10% (with 18 Pulse Rectifier) Except 206 & 207					
Input Power Factor *	<5% (with 18 Pulse rectifier, + filter) Except 206 & 207					
MBS	0.95 - 0.98 (with 18 Pulse rectifier)					
Parallel operation	Maintenance by-pass switch for complete isolation (For 206,207 & 210)					
(*):	N+1 Systems (hot standby, redundant, symetric parallel)					
	In some 18Pulse applications, the standard chassis dimensions may change.					

Accessories

<i>Net Agent II :</i>	<i>SNMP (int. card or ext. with adapter)</i>	<i>MD-1 :</i>	<i>Modbus over RS485 interface</i>
<i>RM2000 :</i>	<i>Remote monitoring panel</i>	<i>MD-NET :</i>	<i>Modbus over TCP interface</i>
<i>ML-100 :</i>	<i>Communication port multiplier</i>	<i>RSC-24 :</i>	<i>RS232/RS485 converter</i>
<i>US-4 and US-8 :</i>	<i>Multiple server shut-down unit</i>		



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300 Series

MODEL	3100	3120	3160	3200	3250	3300
Power (kVA)	100	120	160	200	250	300
INPUT						
Voltage	230/400 Vac 3 phase + N, +/- 15%					
By-pass Voltage	230/400 Vac 3 phase, +/- 10%					
Input frequency	50 Hz (60Hz on request), +/- 5%					
Max RFI	EN50091-2 Class A					
OUTPUT						
Power (kW)	80	96	128	160	200	240
Power factor	0,8					
Voltage	230/400 Vac 3 phase + N					
Voltage Stability	(balanced load: +/-1% (unbalanced load: +/-2%) (step load: +/-5%)					
Voltage recovery time	After step load: Max. 25ms.					
Frequency	50Hz (60Hz on request)					
Frequency tolerance	(line synchronized: +/-2%) (free running: +/-0,2%)					
Efficiency at 100% load	90-92%					
Crest factor	3:1					
Overload protection	(100%-125% load: 10min) (125%-150% load: 1min) (>150% load: by pass)					
Short circuit protection	Electronic short circuit protection					
Total harmonic distortion (THD)	Linear Load: < 3% Non Linear Load: < 5%					
BATTERIES						
Type	Sealed Lead Acid - Maintenance Free					
Number of Batteries	30				32	
Float Charging voltage	405 VDC				432 VDC	
End of discharge voltage	300 VDC				320 VDC	
Ambient temperature °C	25 C					
Battery protection	Automatic circuit breaker					
Battery test	Automatic evert 72 hours					
GENERAL						
Serial communication	Dry contacts & RS232					
Software	T-Mon UPS Management Software					
Temperature range	0 C - 40 C					
Ventilation	Forced air cooling					
Relative humidity	< 90% (non condensed)					
Protection degree	IP20					
Altitude	< 1000m. Above sea level					
Acoustic noise	< 65dB(A)				< 70dB(A)	
Weight w/o Batteries (kg)	770	810	960	1150	1285	1416
Dimensions (mm) HxWxD	1650x1100x800		1730x1195x870		1880x1565x925	
OPTIONS						
Input transformer :	Galvanic isolation transformer at the input (in external cabinet) 10% (with 12 Pulse or 18 Pulse Rectifier, according to UPS range)					
Input THD :	5% (with 18 Pulse rectifier, + filter), up to 80kVA					
Input Power Factor :	0.95 - 0.98 (with 18 Pulse rectifier)					
Parallel operation :	N+1 Systems (hot standby, redundant, symmetric parallel)					
(*):	In 18Pulse & 12Pulse applications, the standard chassis dimensions may change.					

Accessories

Net Agent II :	SNMP (int. card or ext. with adapter)	MD-1 :	Modbus over RS485 interface
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ML-100 :	Communication port multiplier	RS-C-24 :	RS232/RS485 converter
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300 Series

MODEL	310	315	320	330	340	360	380
Power (kVA)	10	15	20	30	40	60	80
INPUT							
Voltage	230/400 Vac 3 phase + N, +/- 15%						
By-pass Voltage	230/400 Vac 3 phase, +/- 10%						
Input frequency	50 Hz (60Hz on request), +/- 5%						
Max RFI	EN50091-2 Class A						
OUTPUT							
Power (kW)	8	12	16	24	32	48	64
Power factor	0,8						
Voltage	230/400 Vac 3 phase + N						
Voltage Stability	(balanced load: +/-1% (unbalanced load: +/-2%) (step load: +/-5%)						
Voltage recovery time	After step load: Max. 25ms.						
Frequency	50Hz (60Hz on request)						
Frequency tolerance	(line synchronized: +/-2% (free running: +/-0,2%)						
Efficiency at 100% load	89-91%			3:1		90-92%	
Crest factor	3:1						
Overload protection	(100%-125% load: 10min) (125%-150% load: 1min) (>150% load: by pass)						
Short circuit protection	Electronic short circuit protection						
Total harmonic distortion (THD)	Linear Load: < 3% Non Linear Load: < 5%						
BATTERIES							
Type	Sealed Lead Acid - Maintenance Free						
Number of Batteries	30						
Float Charging voltage	405 VDC						
End of discharge voltage	300 VDC						
Ambient temperature °C	25 C						
Battery protection	Automatic circuit breaker						
Battery test	Automatic evert 72 hours						
GENERAL							
Serial communication	Dry contacts & RS232						
Software	T-Mon UPS Management Software						
Temperature range	0 C - 40 C						
Ventilation	Forced air cooling						
Relative humidity	< 90% (non condensed)						
Protection degree	IP20						
Altitude	< 1000m. Above sea level						
Acoustic noise	< 56dBA					< 60dBA	
Weight w/o Batteries (kg)	235	250	266	322	484	562	620
Dimensions (mm) HxWxD	1145x485x675			1400x570x820		1400x710x800	
OPTIONS							
Input transformer :	Galvanic isolation transformer at the input (in external cabinet)						
Input THD :	10% (with 12 Pulse or 18 Pulse Rectifier, according to UPS range)						
Input Power Factor :	5% (with 18 Pulse rectifier, + filter), up to 80kVA						
Parallel operation :	0.95 - 0.98 (with 18 Pulse rectifier)						
(*) :	N+1 Systems (hot standby, redundant, symmetric parallel)						
	In 18Pulse & 12Pulse applications, the standard chassis dimensions may change.						

Accessories

Net Agent II : **SNMP (int. card or ext. with adapter)**
 RM2000 : **Remote monitoring panel**
 ML-100 : **Communication port multiplier**
 US-4 and US-8 : **Multiple server shut-down unit**

MD-1 : **Modbus over RS485 interface**
 MD-NET : **Modbus over TCP interface**
 RSC-24 : **RS232/RS485 converter**



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