

Masterys Green Power

10 – 120 kVA

Your protection for

- Data centres
- Telecommunications
- Service sector
- IT-Networks / Infrastructures



Green Power advantages

- **Significant cost savings (TCO)**
 - Maximum energy saving
 - The 96% output efficiency means you can save thousands euros of on your annual energy bill
 - Highly compact UPS and battery
 - The reduced footprint of the UPS and its battery saves you valuable floor space
 - Extended battery life and performance
 - EBS battery charging management improves the battery lifespan
- **Optimised electrical network**
 - Smaller upstream information, due to very low input current
 - Input Power factor > 0.99 and input current harmonic distortion < 2.5%
 - 12% more active power for servers
 - Due to the 0.9 output power factor, all the power can be used with the latest servers
- **High availability and flexibility**
 - Advanced battery monitoring and management
 - For optimum battery reliability
 - Flexible modular upgrades
 - Easy to add supplementary (units up to 6)
 - High availability architectures
 - Parallel redundant architecture
 - Internal Automatic Cross Synchronisation (ASC)
- **User-friendly and advanced communication facility**
 - User-friendly multilingual interface with graphic display
 - Flexible communication for every BMS
 - Dry contacts, MODBUS serial link, PROFIBUS ...
 - 24/7/365 monitoring
 - Advanced server shutdown options
 - For stand-alone and virtual servers

96%

The highest efficiency
performance on the market



The Green Power efficiency
is certified by TÜV SÜD

Technical data

Green Power									
Sn [kVA]	10	15	20	30	40	60	80	100	120
Pn [kW]	9	13.5	18	27	36	54	72	90	108
Input / output : 3/1	•	•	•						
Input / output : 3/3	•	•	•	•	•	•	•	•	•
INPUT									
Rectifier rated voltage	400 V 3ph + N								
Input frequency	50 / 60 Hz ± 10%								
Power factor / THDI	> 0.99 / < 2.5 %								
Bypass rated voltage: 1ph + N	230 V								
Bypass rated voltage: 3ph + N	400 V								
Output									
Voltage	if 1ph + N 230 V ± 1% (can be configured 220/240 V) if 3ph + N 400 ± 1% (380/415 V configurable)								
Voltage tolerance	static load ± 1%, dynamic load in accordance with VFI-SS-111								
Frequency	50 / 60 Hz ± 2 %					50 / 60 Hz ± 0.02 Hz			
Automatic bypass	nominal output voltage ±15% (configurable with generator from 10% to 20%)								
Total harmonic voltage distortion	< 1% with linear load / < 3% with non linear load								
Overload @ p.f. 0.8	125% for 10', 150% for 60''								
Overload @ p.f. 0.9	125% for 5', 150% for 30''								
Crest factor	3 : 1 (in accordance with EN 62040-3)								
EFFICIENCY (TÜV SÜD tested)									
Online mode @ 50% of load	96 %								
Online mode @ 75% of load	96 %								
Online mode @ 100% of load	95.5 %								
ECO MODE	up to 98 %								
ENVIRONMENT									
Operating environment temp.	from 0°C up to +40°C (from 15°C to 25°C for maximum battery life)								
Relative humidity	0% - 95% without condensation								
Maximum altitude	1000 m without derating (max. 3000 m)								
Noise level (ISO 3746)	< 52 dB (A)			< 55 dB (A)		< 60 dB (A)		< 65 dB (A)	
Paralleling units	up to 6								
UPS CABINET									
Dimensions (W x D x H) [mm]	444x795x800		444x795x1000		- ¹⁾	600x800x1400		700x800x1930	
Weight ²⁾ (kg)	190	195	195	315	320	180	200	380	460
Degree of protection	IP 20								
Colours	dark grey					dark grey, silver grey frontal door			
STANDARDS									
Safety (TÜV SÜD tested)	EN 62040-1, EN 60950-1								
Performance	EN 62040-3 (VFI-SS-111)								
Electromagnetic compatibility	EN 62040-2								
Product declaration	CE								

Note:

1) 444 x 795 x 1400

2) Green Power 10 – 40 kVA: models with standard batteries