



### Parallel redundancy double conversion online UPS series

- Double conversion true online UPS.
- Level 9 compliant UPS.
- Parallel redundancy up to 4 units.
- Wide input voltage and frequency windows.
- Unity power factor at 0.9.
- ECO mode for energy saving.
- Common battery.
  - Programmable battery voltage from  $\pm 96$  Vdc to  $\pm 240$  Vdc.
  - Built-in batteries make UPS ready to use.
  - DSP-controlled technology.
    - 3-level intelligent charge modes with smart charge current adjustment.
    - Powerful charger – up to 10A.
    - Versatile communication interfaces provided for different applications.
    - Superior overload capability.
    - Programmable control and monitoring software via RS232 port.
      - Emergency power off.
      - DC start.

# Saturn Single Phase

6KVA 10KVA 15Kva 20Kva



## True-Online Uninterruptible Power Supplies

MODEL	MP S 6kVA	MP S 10kVA	MP S 15kVA	MP S 20kVA
Capacity (VA/Watts)	6KVA / 5 400W	10KVA / 9 000W	15KVA / 13 500W	20KVA / 18 000W
<b>INPUT</b>				
Nominal voltage	220/230/240Vac	220/230/240Vac OR 380/400/415Vac (3Ph+N+PE)		
Operating voltage range	120-276Vac		208-478Vac	
Operating frequency range	50Hz:45-55Hz; 60Hz:54-66Hz (auto sensing)			
Power factor	≥0,99			
Bypass voltage range	<b>Max. voltage:</b> 220V: +25%(optional +10%, +15%, +20%) / 230V:+20% (optional +10%, +15%) 240V: +15% (optional +10%) <b>Min. voltage:</b> -45% (optional -20%, -30%)			
ECO range	Same as bypass			
Harmonic distortion (THDi)	<3% (100% linear load)		<5% (100% linear load)	
Generator input	Support			
<b>OUTPUT</b>				
Rated voltage	220/230/240Vac			
Power factor	0,9			
Voltage regulation	+1%			
Frequency	Line mode	+1%/+2%/+4%/+5%/+10% of the rated frequency (optional)		
	Bat. mode	50/60(+0,1)Hz		
Crest factor	3:1			
Harmonic distortion (THDv)	<2% with linear load; <5% with non-linear load			
Efficiency	>93,5%		>94,5%	
<b>BATTERY</b>				
Battery voltage	192Vdc / 240Vdc			
Capacity (standard unit)	12V/7Ah/9Ah			
Typical recharge time	6-8 hours (to 90% of full capacity)			
Charge current	1A(standard unit); Long run unit max. current 10A(charge current can be set according to battery capacity installed)			
<b>SYSTEM FEATURES</b>				
Transfer time	Mains to battery: 0ms ; Mains to bypass: 0ms			
Overload	Line mode	Load<110%: last 60min, <125%: last 10min, <150%: last 1min, >150% turn to bypass mode immediately		
	Bypass mode	40A(Breaker)	60A(Breaker)	100A(Breaker)
Short circuit	Hold whole system			
Overheat	Line mode: Turn to bypass; backup mode: shut down UPS immediately			
Low battery voltage	Alarm and switch off			
Self-diagnostics	Upon power on and software control			
Battery	Advanced battery management			
Audible & visual alarms	Line failure, low battery, overload, system fault			
LED & LCD display	Line mode, bat. mode, eco mode, bypass mode, low battery, overload & UPS fault			
LCD display	Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage, inner temperature & remaining battery backup time			
Communication interface	Rs232, USB, SNMP card(optional), parallel card(optional), relay card (optional)			
<b>ENVIROMENTAL</b>				
Operating temperature	0 C - 40 C			
Storage temperature	-25 C - 55 C			
Humidity range	0-95% (non-condensing)			
Altitude	< 1500m			
Noise level	<55dB		<58dB	
<b>PHYSICAL</b>				
Dimension (DxWxH)mm	502x250x616			
Net Weight (kg)	62/18	64/20	46	
<b>STANDARDS</b>				
Safety	IEC/EN62040-1, IEC/EN60950-1			
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			

\* Due to continuous product improvements specifications are subject to change without further notice.



All products are manufactured to the following standards:

