

Protect 5 MOD STR 19"



Specifications

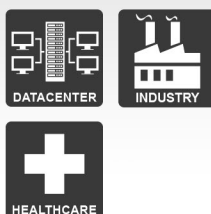


- On-line "double conversion" technology (VFI)
- Input power factor up to 0.99
- Output power factor 0.9 (1 optional)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Wide input voltage range (208-478Vac)
- Parallel connection up to 4 units (80kVA)
- Automatic load sharing for all units in parallel
- Adjustable 6A charger per module
- Genset compatibility
- Various monitoring systems
- For long backup time
- For 19" racks and cabinets
- Adjustable battery voltage from 384-480Vdc (32 to 40 batteries 12Vdc)
- Common or separate batteries
- Backfeed protection
- RS232/RS485
- EPO (Emergency Power Off)

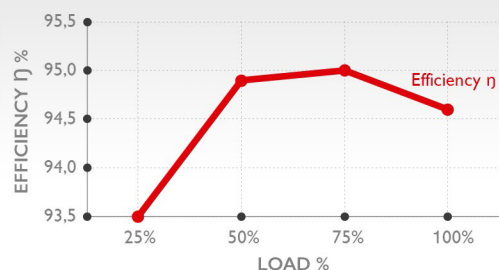
Options:

- SNMP card
- External maintenance bypass
- Relay / AS400 card
- Modbus interface
- 2 years warranty

Applications



Efficiency



Modules for 19" Racks & Cabinets

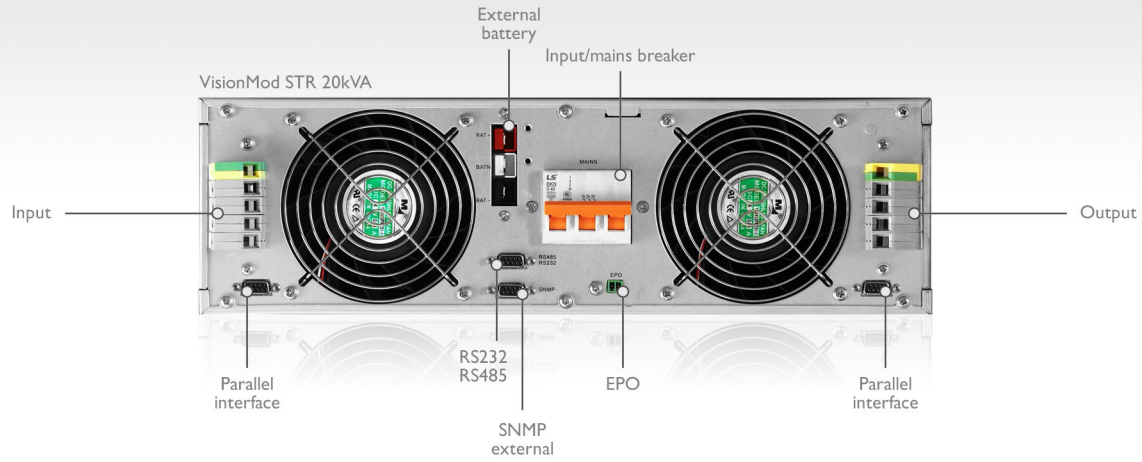
Each power module is an independent UPS with rectifier, inverter and bypass. To be placed in a standard 19" cabinet.



Up to 4 units in parallel



Common battery in parallel mode (hot swap)



Protect 5	Model	
Nominal capacity / Power per module	10kVA/9kW and 20kVA/18kW (optional 20kVA/20kW)	
— Input		
Rated voltage	380/400/415Vac	
Voltage range	208-478Vac	
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)	
Input power factor	> 0.99	
Harmonic distortion (THDi)	<3% (at 100% non-linear load)	
— Output		
Voltage	380/400/415Vac +/-2% at nominal voltage	
Frequency	50/60Hz +/-0,2%	
Harmonic distortion (THD)	<2% (linear load) / <5% (non-linear load)	
Crest factor	3:1	
Efficiency at 75-100% load	ECO mode >98% / AC mode up to 95%	
— Battery (external)		
Type	VRLA / AGM / Gel / OPZv	
Voltage	384-480Vdc (32-40 batteries)	
Maximum charging current	6A per module (adjustable)	
Backup time	According battery module or external battery cabinet for long backup	
— Protection		
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection	
Overload AC-Mode	≤110% - 60min / ≤125% - 10min / ≤150% - 1min	
Overload battery mode	≤110% - 30sec / ≤125% - 1sec / ≤150% - 200msec	
Overload bypass mode	Input breaker 40A	
— Alarms - informations		
Audible	Line failure, battery low, bypass - overload status, fault status	
LED	Line-/backup-/ECO-/bypass-mode, battery low/bad/disconnected, overload, fault	
LCD	Voltage/frequency, load %, battery voltage/runtime	
— Bypass		
Type	Internal static (automatic) bypass / External bypass optional	
Bypass voltage range	+15%(optional +5/10/25%)/-45%(optional -20/30%)/Frequency range: ± 10%	
— Standards		
Certificates	CE, EN62040-1-1 (ESD), EN62040-2 (EMI)	
Protection class	IP20	
— Environment		
Temperature	0-40°C	
Humidity / Altitude	0-95% non-condensing / < 1500m	
Audible noise at 1m	< 60dB	
— Interface		
Power module	RS232 / RS485 / EPO / Parallel port	
Optional	SNMP / Relay card	
— Dimensions of the module		
Dimensions WxDxH	Power module 443x580x131mm (3U)	Battery module 443x580x131mm (3U)
Weight	31kg	Empty : 15kg, 3 shelves hot swap 23kg/shelve

ON-LINE