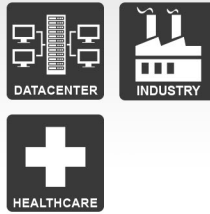


Protect 5 MOD Subrack



Applications



Advantages

The rack modular, scalable, hot-swappable, online double conversion UPS ranging from 10 to 40kVA/kW, with its flexible configuration of 3/3, 3/1 and 1/1, and its compact structure, is the ideal choice for small and medium data centers. 7" color touch screen LCD with integrated bypass.

Specifications



- **Rack modular design**
Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers.
- **3 level technology**
Very high efficiency
Normal mode AC-AC: 94,5% max.
Eco mode: 99%
- **High power density**
10 kVA/kW power module in 2U height, saving much space, easy for capacity expansion.
- **Integrated solution for data centers**
The UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering an excellent choice for data centers.
- **Adjustable battery voltage**
384-528VDC (32-44x12VDC batteries).
- **Smart sleep function**
System can intelligently shutdown some power modules to increase the total load rate, achieving higher efficiency.

Power modules

1 to 4 power modules can be connected according to the subrack dimensions.

Battery module

Hot swap battery module

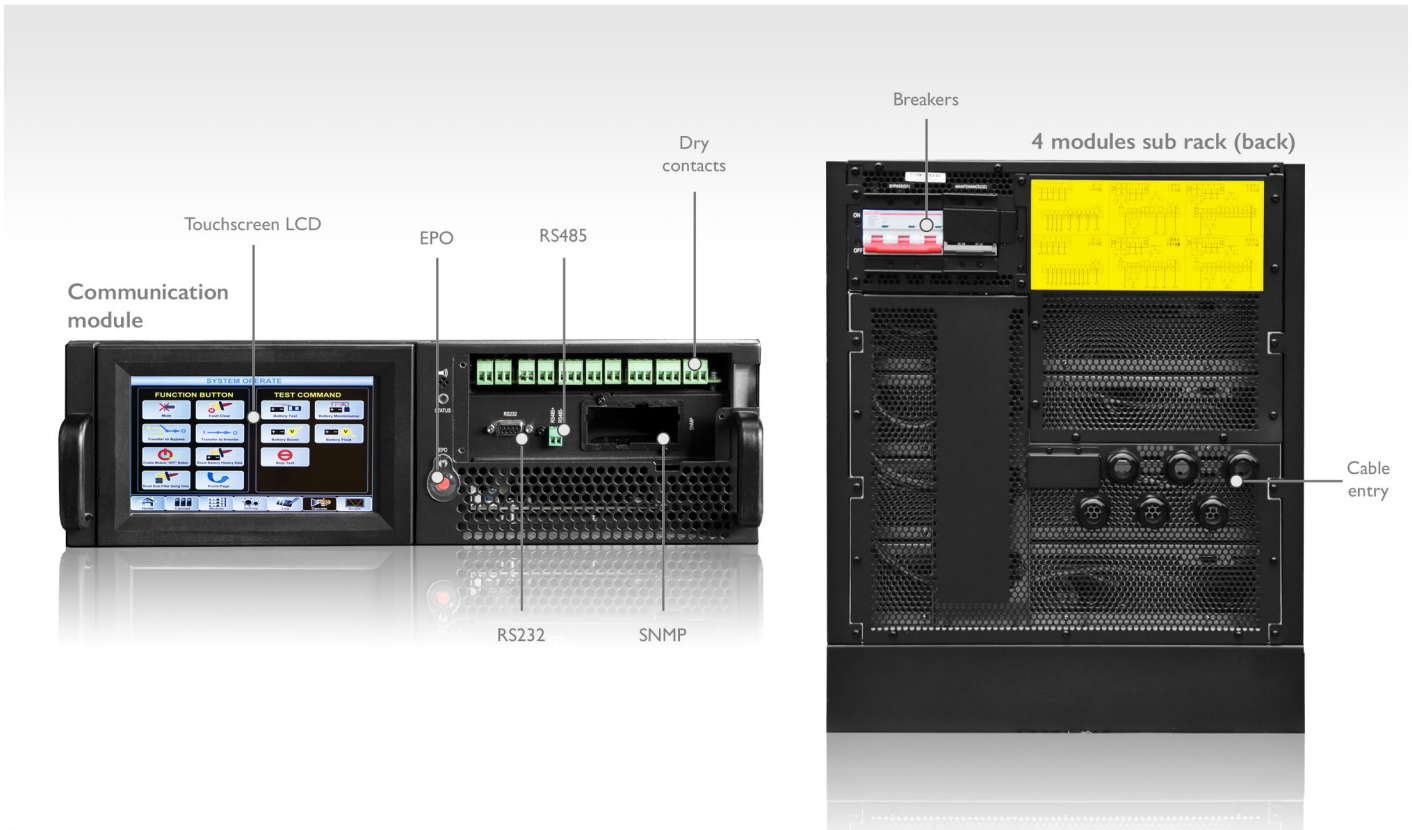


Standard battery module



Example 19" rack cabinet with standard battery module





Protect 5	Model	
	M20/10X	M40/10X
Subrack capacity	20kVA/20kW	40kVA/40kW
Power module	PM10x (10kVA/10kW)	
— Input		
Phase	3P+N+G (380/400/415Vac) or 1P+N+G (220/230/240Vac)	
Voltage range (3-phase)	304-478Vac (phase-phase) at 100% load; 228-478Vac at 80% load	
Voltage range (1-phase)	176-276Vac (phase-neutral) at 100% load; 132-276Vac at 80% load	
Frequency range	40-70Hz	
Power factor	>0.99	
THDi	THDi<4% @ 100% linear load	
— Output		
Voltage	3-phase+N+G: 380/400/415Vac or selectable 1-phase: 220/230/240Vac	
Voltage regulation	1.5%	
Power factor	1.0	
THDu	THD<1% (linear load), THD<5.5% (non-linear load)	
Crest factor	3:1	
Overload capability	110% for 1 hour; 125% for 10 min; 150% for 1 min; >150% for 200 ms	
— Battery		
Voltage	384-528VDC (32-44 x12VDC batteries)	
Charge power	20% of the system power	
— System		
System efficiency	Normal mode 95%; ECO mode 98%; battery mode 94.5%	
Display	7.0" color touch screen LCD + LED + keyboard	
IP Class	IP20	
Interface	Standard: RS232, RS485, dry contact. Optional: SNMP	
Operation/storage temperature	0-40°C/-25-70°C	
Relative humidity	0-95% (non-condensing)	
Noise	56dB @ 50% load at 1 meter	
— Physical		
Cabinet weight	42kg	51kg
Power module weight	15.3kg	15.3kg
Cabinet dimensions WxDxH, mm	485x697x398(7U)	485x697x575 (11U)
Power module dimensions WxDxH, mm	436x590x85 (2U)	
— Standards		
Certificates	IEC62040-1-1, IEC/EN62040-2, IEC62040-3, IEC/EN60950-1	

ON-LINE