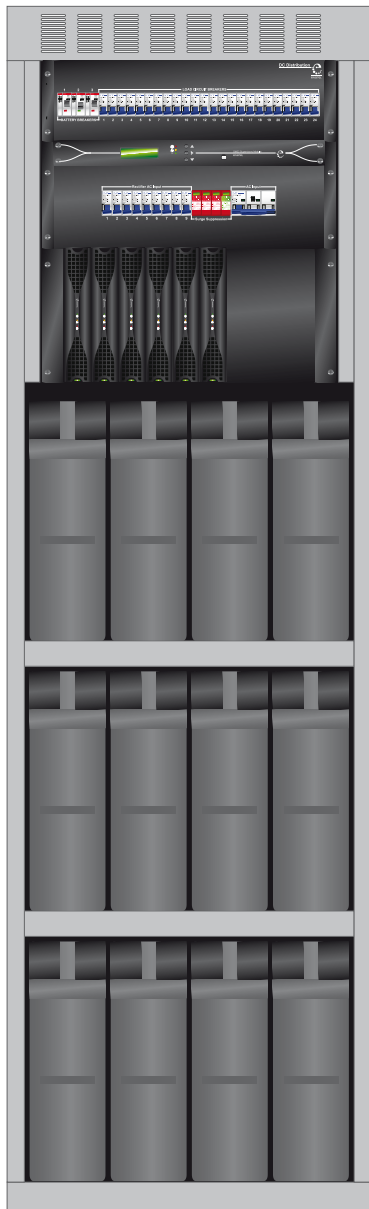


Integrated Power Suite 3 - 18kW 48V DC BTS Rack

Enatel DC power systems are the ideal solutions for powering telecommunications and data networks requiring 24V or 48V DC.

We offer a range of solutions for applications from small standalone systems for applications like access nodes to medium sized systems for radio base stations for mobile networks to larger systems for central office power applications.

Systems are configured using Enatel's state of the art high frequency switchmode rectifier modules, Intelligent network capable controllers, AC & DC distribution modules, and cabinets, and can be customised and configured to meet individual customer requirements.



- Complete power system in one cabinet.
- Multiple battery options available.
- Fully featured monitoring & remote communications.
- Easy access distribution terminations.
- High efficiency, unity power factor rectifiers.
- May be fitted with Enatel compact systems for increased flexibility.
- Door option available for fully protected AC & DC distributions.
- Simplified installation means faster installation.
- Flexible mounting options enable floor space savings.
- Upgrade existing systems to higher power.
- High reliability means less cost of maintenance.
- Full remote monitoring available means less site visits and less cost.
- Lower lifetime operating costs.

Specifications

AC Input	
AC Input Range:	312-500V AC (full power output) 156-312V AC (reduced output power)
Maximum Input Current:	40A/ph (ph-N)
Frequency Range:	45-66Hz
Power Factor:	>0.99 (full power)
Efficiency:	92% (full power)
Style:	3-phase neutral and earth.
Surge Protection:	MOV; 3x Ph-N, 1x N-Earth.
In(8/20 μ S):	20kA
Imax(8/20 μ S):	40kA
DC Output	
Nominal System Output Voltage:	-48V (24V output available on request)
Maximum Power Output:	18,000W
Maximum Output Current:	330A/-54V; 360A/-48V
Polarity:	Positive earth. (standard)
Load & Battery Distribution:	24 load positions for 18mm wide circuit breakers, plus 3 battery breakers up to 100A each. May be arranged in different configurations of load and battery breakers. (option)
Low Voltage Disconnect Options:	Single battery LVD fitted as standard. Up to two LVDs with independent control may be fitted on battery or load side. (option)
LVD Current Rating:	400A
Supervisory & Monitoring Module:	SM21 (standard) SM22 TCP/IP enabled for web based viewing & configuration. (option)
Supervisory Module Mounting:	1U x 19" mounting. (standard) Door mounted for improved system terminal access. (option)
Battery Condition Monitoring:	Optional full battery monobloc monitoring. (bloc voltage & string current)
Rectifier Modules:	RM3048, 48V 3kW module (standard) RM3048/24, 48/24V, 1.7kW module (option)
Alarms (voltage free contacts):	1x fixed alarm – "Monitor Failed" Up to 9x user configurable, 2 of which are pre-programmed: - Non-urgent summary alarm - Urgent summary alarm 7x unassigned, may be assigned to any one of 37 alarm events, (e.g. Rectifier fail, Mains fail etc.) on an "AND" or "OR" basis Contacts rated for 1A at 60VDC
Environmental Requirements	
Temperature:	-10°C to +70°C (max. power de-rated above 50°C)
Humidity:	5-95% RH (non-condensing)
Altitude:	<2500m, De-rate maximum ambient temperature by 4°C per 1000m above sea level.
Mechanical	
Dimensions W, D, H:	600mm (23.6"), 600mm (23.6"), 1800mm (71")
Weight:	850kg when fitted with 3 strings of 150Ahr batteries. (approx)
Shipping Size L, W, H	1900mm x 720mm x 830mm
Shipping weight:	150kg (no batteries fitted, approx)
Battery Accommodation	
Battery Trays:	Up to four monoblocs of up to 70kg each per tray (max. of 280kg per tray)
Battery Monobloc Size W, D, H:	125mm, 561mm, 320mm
Number of Trays:	3 (standard) for 150Ahr monoblocs. 4 (optional) for 100Ahr monoblocs. (loses 2 load distribution breakers with the addition of one more battery breaker)
Compliances	
Safety:	EN60950
Part Numbers	
Base System with SM21:	PSI-1800637-010
Base System with SM22:	PSI-1800637-000