

EPC4860A(B)/20-07

■ DC Power System for
Business-Critical Continuity

EPC4860A(B)/20-07

System Features

- Cost-effective solution: highly integrated solution including power, lightning protection, equipment chamber and DC power back-up
- Easy maintenance: hot swappable power module and fully front-access maintenance system
- Easy installation: platform, ground and H-mast platform mountings are available
- Sealed design: IP55 protection class protects equipment from water and dust, while maintaining a cool operating environment
- Modular design: separate design of power and battery assures flexible scalability of system and avoids interference between each other
- Innovative temperature control system: highly reliable heat exchanger and heater operate with easy maintenance and lower cost to keep electronics from exceeding their optimal temperatures
- Lightning protection at AC, DC and PCU sides
- Advanced battery management improves battery lifetime, especially suitable for ragged mains application
- Easy local and remote monitoring
- Safety: system design complies with EN60950 and IEC60950

Introduction

EPC4860A(B)/20-07 power cabinets have been specifically designed with today's distributed network architecture to provide outdoors equipment with reliable DC power. These cabinets offer a cost-effective solution including power and distribution, lightning protection, equipment chamber and DC power back-up. The sealed cabinet, with its reliable temperature control design, assures reliable system running in demanding outdoor environments. Space is available in cabinet to hold equipment like optical transmission equipments.

Applications

- Outdoor stations of GSM, UMTS, CDMA
- Fiber optic transmission systems
- Digital loop carriers



Cabinet

Item	specification	remark
Protection class	IP55	IP23 for battery cabinet
Operating temperature	-40~+45℃ -5℃~+45℃	Plus solar radiation of 1120W/m ² ,for EPC4860B/20-07 Plus solar radiation 1120W/m ² ,for EPC4860A/20-07
Maximum heat dissipation	700W	
Heater Power	300W×2	Only for EPC4860B/20-07
Safety	CE mark	According to EN60959 and IEC60950
Supervision mode	RS232/484 + dry contact	Three digital input

System Configuration

Model	DC capacity	Rectifiers	Monitor	Battery Capacity
EPC4860A(B)/20-07	48V60A	HRS1150-9000, 2~3 units	PSM-BB, 1 unit	48V100AH, 2 strings

Distribution

	EPC4860/20-07	Remark
AC input	63A/1P*1 MCB	
AC output	63A/1P*1	socket,with RCD rated 30mA
Battery	63A*1(MCB)	
DC output	32A*2(MCB) 16A*4(MCB)	LLVD Branch Including BLVD kit

Power Specification

	Specification	Remark
Input voltage	90-290V/40-65Hz	Single phase
Output voltage	42-58V	Normal 48V
Rectifier power	1150W	HRS1150-9000
Surge current capability	nominal 25kA (8/20us), max. 60kA 15kA(8/20us)	AC input lightning protection DC output lightning protection

Mechanical Parameter

Parts	Dimension
Cabinet(excluding floorstand)	1600mm(H)×600mm(W)×600 mm(D)
Battery chamber 1	283mm(H)×470mm(W)×586 mm(D)
Battery chamber 2	283mm(H)×470mm(W)×586 mm(D)
Equipment chamber	5U (H)×19 Inch (W)×400mm (D)
Weight	130kg (excluding rectifiers and batteries)
Mount	Platform, H-mast

Battery(option)

Item	Specification	Remark
Configuration per string	48V/100Ah	
Single cell model	12V/100Ah	VRLA battery Design life 12 years
Size:D*W*H(mm)	520*107*263	
Weight	41kg	
Safety	CE/UL mark	

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