

EPC48180/1800-F1700A Outdoor Power Cabinet

■ Outside Plant for
Business-Critical Continuity

EPC48180/1800-F1700A Outdoor Power Cabinet

System Features

- Cost-effective solution: highly integrated solution including power, forced vent cooling system, 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
- Lightning protection at AC, DC and PCU sides
- Advanced battery management improves battery lifetime, especially suitable for poor mains application
- Easy local and remote monitoring
- Safety: system design complies with EN60950 and IEC60950

Introduction

EPC48180/1800-F1700A outdoor power cabinet has 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, fan cooling system, 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



EPC48180/1800-F1700A

Cabinet

Item	specification	remark
Protection class	IP55	IP34 for battery chamber & battery cabinet
Operating temperature	-10~+45℃	Plus solar radiation of 1120W/m ²
Maximum heat dissipation	1700W	Forced ventilating
Safety	CE mark	According to EN60950 and IEC60950
Communication	RS232+ dry contact	

System Configuration

Model	DC capacity	Rectifiers	Monitor	Battery access
EPC48180/1800-F1700A	48V/180A	R48-1800,2~6 units	PSM-D2,1 unit	48V,4 strings

Distribution

	EPC48180/1800-F1700A	Remark
AC input	125A/3P	
AC output	10A/1P × 1	socket, with RCD rated 30mA
Battery	63A × 4(MCB)	
DC output	100A × 1, 63A × 3, 32A × 1	LLVD
	32A × 1, 10A × 4	BLVD

Power Specification

	Specification	Remark
Input voltage	90-290V/40-65Hz	Single phase
Output voltage	42-58V	Normal 48V
Rectifier power	1740W	R48-1800
Surge current capability	nominal 20kA (8/20us), max. 40kA	AC input lightning protection
	15kA(8/20us)	DC output lightning protection

Mechanical Parameter

Parts	EPC4860A(B)/20-07
Cabinet(integrative cabinet with base and 2 battery chambers)	1700mm(H)×700mm(W)×700mm(D)
Battery chamber 1	320mm(H)×530mm(W)×560mm(D)
Battery chamber 2	320mm(H)×530mm(W)×560mm(D)
Separate battery cabinet (optional)	1000mm(H)×700mm(W)×700mm(D)
Equipment chamber	6U(H)×23inch(W)×400mm(D)
Weight	150kg (excluding rectifiers and batteries)
Mount	Platform, H-mast

Battery(optional)

Item	Specification	Remark
Configuration per bank	48V/100Ah	
Single cell model	12V/100Ah	VRLA battery Long life time design
Dimension:D×W×H(mm)	520 × 107 × 263	
Weight	41kg	
Safety	CE/UL mark	

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