

FlexPower 300



Rating: 300 Ampere

Voltage: 230VAC

Configuration: Rackmount

FlexPower 300 DC Power system is a compact and intelligent power system containing up to 6 modules of Flex 48/3000H1 rectifiers, DKD51 controller module, AC connection and DC connection.

Each rectifier is designed and manufactured for simple installation, start-up, and service. Due to the compact size of the system, it adds to the success of the system. For larger load capacity, rectifiers can be connected in parallel with the addition of an intelligent monitor controller.

Applications:

- Fiber Optic Network
- Network Access
- Transmissions Equipment
- Mobile Communication
- Satellite Communication Ground Station

Product Features:

- 19", 9U sub-rack, easy to be embedded into all Standard kinds of telecom equipment.
- Front access and front connection
- System total capacity up to 18kw with 50A rectifier.
- PFC technique features the system high efficiency, energy-saving and up to 0.99 power factor.
- Intelligent fan-cooling technique brings good cooling performance , low failure rate and high reliability.
- Fast on-line expansion of rectifier modules enabled by hot-swap.
- N+1 rectifier module redundancy.
- Batteries monitoring and management enables backup batteries well maintained.
- RS232 communication interface, SNMP optional

TECHNICAL SPECIFICATIONS – PowerHub FlexPower 300

MODEL	FlexPower 300	
AC INPUT		
AC Supply	90V-300VAC (Nominal: 220/230VAC) 156V-520VAC (Nominal: 380VAC)	
Frequency	45-65Hz	
Power Factor	0.99	
Voltage Distortion	<5%	
Current Distortion	≤10% @ 50-100% Load	
Protection	Soft Start Surge Protection (Optional) Internal Fuses (L & N) Over Voltage Protection	
No.of AC input MCB	1*63A/1P or 1*63A/3P	
DC OUTPUT		
Voltage	-48VDC (-43.2 to 57.6VDC Adjustable)	
Current	300A Max	
Voltage Regulation	≤±1%	
Current Sharing	≤±5%	
Efficiency	≥96%	
Ripple / Noise	≤200mVp-p / ≤ 2mVrms (Psophometric)	
Protection	Over/Under Voltage Shutdown Short Circuit Proof High Temperature	
OPTIONS		
DC Distribution	Priority Load (Top Row): 10 x 10A, 4 x 80A (MCB) Non-Priority Load (Bottom Load): 4 x 80A (MCB) Battery: 2x 125A (MCB)	
Low Voltage Disconnect	Load Low Voltage Disconnect (LLVD) / Battery Low Voltage Disconnect (BLVD)	
Rectifier Module	Flex 48/3000H2	
MONITORING and CONTROL		
System Controller	Flex 48/5x	
Remote Operation	RS232 / SNMP	
Visual Indications	Green LED – System ON Yellow LED – Minor Alarms Red LED – Major Alarms	LCD – System Status Symmetry alarm
Alarms Relays	8 Relays	
Digital Inputs	3 Options (for Monitoring of External Equipment and Battery)	
Alarms	AC Failure Rectifier Failure Load Fuse Battery Fuse	LVD Operated Low Output Voltage High Output Voltage Symmetry
OTHER SPECIFICATIONS		
Operating Temperature	-40 to +75°C Full Power@-40 to +65°C	
Storage Temperature	-40 to +70°C (-40 to +158°F)	
Humidity	≤ 90% Non-Condensing (Operating) ≤ 95% Non-Condensing (Storage)	
Dimension (WxDxH)	482.6x306x398(mm) 9U	
Weight	20kg Excl. Rectifiers	

Specifications are subject to change without prior notice.