

Unity DC Power System with Flatpack2

Versatile and powerful solution for any application. The combination of high efficiency, power density and reliability makes the Unity Power System a product family that truly stands out and provides unparalleled network availability. The versatility of the Unity Power System in combination with advanced control and monitoring means that it can be used in a wide variety of DC Telecom applications.



Unity Power System

DC Power Supply System

Doc 370140.DS3 - rev1.3

APPLICATIONS

WIRELESS, FIBER AND FIXED LINE COMMUNICATION

Today's communications demand state of the art, efficient and compact DC power systems. Unity Power Systems deliver an industry leading power density, efficiency and superb reliability at lowest lifetime cost.

BROADBAND AND NETWORK ACCESS

Increasing network speed demands flexible and expandable DC power solutions. The Flatpack2 rectifiers combined with Smartpack S controller are your key building blocks for future needs.

SMALL AND LARGE

Due to the high power density, cost competitive design and a highly flexible system communication interface, Flatpack2 rectifiers are used in system solutions up to 30 kW.

PRODUCT DESCRIPTION

MORE ROOM FOR REVENUE EQUIPMENT

The 4U distribution is designed to meet the demand for compact and flexible DC power solutions. It is based on building blocks and has a variety of configurations depending on battery and load needs. Pluggable breakers ensure easy configurability as well as "in field" placement.

The power system contains a Smartpack S controller, which has all the functionality required in present and future applications.

Powered by Flatpack2 HE rectifier modules, efficiency exceeds 96%.

KEY FEATURES

COMPACT DESIGN

Small overall dimensions are ideal for both rack and cabinet solutions.

DIGITAL CONTROLLER

The Smartpack S digital controller system provides comprehensive monitoring and regulation by utilizing a variety of specialized data collection devices.

HEAT MANAGEMENT

Flatpack2 modules feature front-toback airflow and chassis-integrated heat-sinks, supplementing highefficiency energy conversion with excellent heat management.

COST EFFICIENCY

A true plug-and-play system, the Unity power system reduces both time-to-install and overall costs.

Unity Power System, Flatpack2





INPUT SPECIFICATIONS		
Rated Input Voltage Range	100 – 277 VAC ¹ ; 80 – 400 VDC ¹ See datasheet for specific module's input specifications.	
Input Connections (Rear Access)	Terminal Block ² MATE-N-LOK ^{TM3} ² Default configuration is one rectifier per input; jumper straps are included for powering two rectifiers from one input. ³ Input cables sold separately; options include one cable per rectifier, or one cable with two MATE-N-LOK connectors to power two rectifiers per line cord.	
OUTPUT SPECIFICATIONS		
Rated Voltage	0 – 56 V	
Rated Current	640A	
PHYSICAL ATTRIBUTES		
Nominal rack sizes	19" / 23" (For 19" systems, inside width of relay rack must meet EIA-310-D standards, which specify an inside dimension of 17.72".)	
Depth	19.2" Terminal Block connections; 20.4" AMP connections	
Height	5 RU to 11 RU, depending on number of distributions and rectifier shelves.	
DC DISTRIBUTION OPTIONS (VARY BY SYSTEM)		
Distribution configurations* *For additional details see the Unity Product Guide.	Load breaker, bulk load, battery breaker, and bulk battery options available	
Available breaker positions	19" systems – 21 single-pole breaker positions per panel,* ½-20 studs, 5%" center-to-center 23" systems – 26 single-pole breaker positions per panel,* ½-20 studs, 5%" center-to-center *Up to two panels	
Bulk battery connections [†] †Not all systems have bulk battery connections. For details see the Unity Product Guide.	19" - Five (5) ¼-20 PEM nuts, 5%" center-to-center and five (5) 3%-16 studs, 1" center-to-center 23" – Eight (8) ¼-20 PEM nuts, 5%" center-to-center and seven (7) 3%-16 studs, 1" center-to-center	
Low voltage disconnect options	None or battery (LVBD)	
Breaker sizes	Single pole, 0 – 100A Double pole, 125 –200A Triple pole, 250A	
CONTROLLER		
Monitoring Unit	Smartpack S Panel Mount	
Inputs/Outputs	6 configurable inputs*: 1-4, temperature (battery or ambient); 5, normally open or normally closed; 6, factory-wired for LVBD alarm	
	Additional external battery breaker alarm 6 outputs: dry contact (Normally Open/Normally Closed) * See Smartpack S Panel Mount datasheet for more details (Doc. No. 242100.415.DS3).	
MODULES (SOLD SEPARATELY)		
241115.105	Flatpack2 48V, 2000W HE Rectifier	
241119.105	Flatpack2 48V, 3000W HE Rectifier	
241115.205	Flatpack2 24V, 1800W HE Rectifier	
241115.650	Flatpack2 48V, 1500W HE Solar Charger	
241119.650	Flatpack2 48V, 3200W HE Solar Charger	
OTHER SPECIFICATIONS		
Operating temperature	-40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F)* * See datasheet for specific module's temperature specifications	
Storage temperature	-40 to +70°C (-40 to +158°F)	
APPLICABLE STANDARDS		
Electrical Safety	UL/CSA 60950-1, 2 nd edition IEC 60950-1, 2 nd edition	
EMI/EMC	GR-1089-CORE	
Environment	GR-63-CORE, NEBS LEVEL 3	



Unity DC Power System with Flatpack S

Versatile and powerful solution for any application. The combination of high efficiency, power density and reliability makes the Unity Power System a product family that truly stands out and provides unparalleled network availability. The versatility of the Unity Power System in combination with advanced control and monitoring means that it can be used in a wide variety of DC Telecom applications.



Unity Power System

DC Power Supply System

Doc 370152.DS3 - rev1.2

APPLICATIONS

WIRELESS, FIBER AND FIXED LINE COMMUNICATION

Today's communications demand state of the art, efficient and compact DC power systems. Unity Power Systems deliver an industry leading power density, efficiency and superb reliability at lowest lifetime cost.

BROADBAND AND NETWORK ACCESS

Increasing network speed demands flexible and expandable DC power solutions. The Flatpack S rectifiers combined with Smartpack S controller are your key building blocks for future needs.

SMALL AND LARGE

Due to the high power density, cost competitive design and a highly flexible system communication interface, Flatpack S rectifiers are used in system solutions up to 30 kW.

PRODUCT DESCRIPTION

MORE ROOM FOR REVENUE EQUIPMENT

The 4U distribution is designed to meet the demand for compact and flexible DC power solutions. It is based on building blocks and has a variety of configurations depending on battery and load needs. Pluggable breakers ensure easy configurability as well as "in field" placement.

The power system contains a Smartpack S controller, which has all the functionality required in present and future applications.

Powered by high-efficiency Flatpack S rectifier modules.

KEY FEATURES

COMPACT DESIGN

Small overall dimensions are ideal for both rack and cabinet solutions.

DIGITAL CONTROLLERS

The Smartpack S digital controller system provides comprehensive monitoring and regulation by utilizing a variety of specialized data collection devices.

HEAT MANAGEMENT

Flatpack S modules feature front-toback airflow and chassis-integrated heat-sinks, supplementing highefficiency energy conversion with excellent heat management.

COST EFFICIENCY

A true plug-and-play system, the Unity power system reduces both time-to-install and overall costs.

Unity Power System, Flatpack S

Doc 370152.DS3 - rev1.2



Rated Input Voitage Range	INPUT SPECIFICATIONS		
Input Connections (Rear Access) Terminal Blocks of MATE-N-LOK M3 Input Connections (Rear Access) Terminal Block of MATE-N-LOK M3 Input Connections (Rear Access) Terminal Block or continue to an orable sparse reput jumper straps are include for powering four recitiers from one reput. Input Connections Rated Voltage 0 – 56 V Rated Voltage 8 19* / 23* (For 19* systems, inside width of relay rack must meet EIA-310-D standards, which specify an inside dimension of 17.72*.) Depth 15* Terminal Block connections,** 16.1* AMP connections **Rear access a required for central to terminal block connections,** 16.1* AMP connections **Rear access a required for central to terminal block connections,** 16.1* AMP connections **Rear access a required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections,** 16.1* AMP connections **Rear access are required for central to terminal block connections.** **Rear access are clusty forecast are the day forecast are the		100 – 250 V (AC or DC) ¹	
Rear Access		¹ See module datasheet for further details.	
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Rated Current 640A PHYSICAL ATTRIBUTES Nominal rack sizes 19" / 23" (For 19" systems, inside width of relay rack must meet EIA-310-D standards, which specify an inside dimension of 17.72".) Depth 15" Terminal Block connections; "16.1" AMP connections "State access in required for conduit to terminal block connectores; theorifore, creature that relay rack rails will not interfere with conduit to terminal block connectores; theorifore, creature that relay rack rails will not interfere with conduit to terminal block connectores; theorifore, creature that relay rack rails will not interfere with conduit to terminal block connectores; theorifore, creature that relay rack rails will not interfere with conduit to terminal block connectores; theorifore, creature therefore, theorifore, creature the relay rack rails will not interfere with conduit to terminal block connectores; theorifore, creature the relay rack rails will not interfere with conduit to the relay to the relation to	OUTPUT SPECIFICATIONS		
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Distribution configurations* *For additional details see the Unity Product Guide. Available breaker positions 19" systems = 21 single-pole breaker positions per panel,* %-20 studs, %" center-to-center 23" systems = 26 single-pole breaker positions per panel,* %-20 studs, %" center-to-center 10" to tell systems have but kettery connections. For details see the Unity Product Guide. Low voltage disconnect options None or battery (LVBD) Breaker sizes Single pole, 0 = 100A Double pole, 125 = 200A Triple pole, 250A CONTROLLER Monitoring Unit Smartpack S Inputs/Outputs 6 configurable inputs*: 1-4, temperature (battery or ambient); 5, normally open or normally closed; 6, factory-wired for LVBD alarm Additional external battery breaker alarm 6 outputs: dry contact (Normally Open/Normally Closed) * see simple see the low for more details (Doc. No. 242*100.415.DS3) **NODULES (SOLD SEPARATELY) 241122.105 Flatpack S 48V, 1000W OTHER SPECIFICATIONS Operating temperature -40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F) Storage temperature APPLICABLE STANDARDS Electrical Safety UL/CSA 60950-1, 2nd edition EEMI/EMC EMI/EMC GR-1089-CORE	Height	6 RU to 11 RU, depending on number of distributions and rectifier shelves.	
### To additional details see the Unity Product Guide. Available breaker positions 19 " systems – 21 single-pole breaker positions per panel," 1/-20 studs, %" center-to-center 23" systems – 25 single-pole breaker positions per panel," 1/-20 studs, %" center-to-center 10	DC DISTRIBUTION OPTIONS (VARY BY SYSTEM)		
Bulk battery connections 19" - Five (5) %-20 PEM nuts, %" center-to-center and five (5) %-16 studs, 1" center-to-center	*For additional details see the Unity Product	Load breaker, bulk load, battery breaker, and bulk battery options available	
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Low voltage disconnect options None or battery (LVBD) Breaker sizes Single pole, 0 – 100A Double pole, 125 –200A Triple pole, 250A CONTROLLER Monitoring Unit Smartpack S Inputs/Outputs 6 configurable inputs*: 1-4, temperature (battery or ambient); 5, normally open or normally closed; 6, factory-wired for LVBD alarm Additional external battery breaker alarm 6 outputs: dry contact (Normally Open/Normally Closed) ** See Smartpack S Panel Mount datasheet for more details (Doc. No. 242100.415.DS3). MODULES (SOLD SEPARATELY) 241122.105 Flatpack S 48V, 1000W 241122.125 Flatpack S 48V, 1800W 241122.205 Flatpack S 24V, 1000W OTHER SPECIFICATIONS Operating temperature -40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F) Storage temperature -40 to +70°C (-40 to +158°F) APPLICABLE STANDARDS Electrical Safety UL/CSA 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition	Bulk battery connections [†]	19" - Five (5) 1/4-20 PEM nuts, 5/8" center-to-center and five (5) 3/6-16 studs, 1" center-to-center	
Breaker sizes Single pole, 0 – 100A Double pole, 125 – 200A Triple pole, 250A CONTROLLER Monitoring Unit Smartpack S Inputs/Outputs 6 configurable inputs*: 1-4, temperature (battery or ambient); 5, normally open or normally closed; 6, factory-wired for LVBD alarm Additional external battery breaker alarm 6 outputs: dry contact (Normally Open/Normally Closed) * See Smartpack S Panel Mount datasheet for more details (Doc. No. 242100.415.DS3). MODULES (SOLD SEPARATELY) 241122.105 Flatpack S 48V, 1000W 241122.125 Flatpack S 48V, 1800W 241122.205 Flatpack S 24V, 1000W OTHER SPECIFICATIONS Operating temperature -40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F) Storage temperature -40 to +70°C (-40 to +158°F) APPLICABLE STANDARDS Electrical Safety UL/CSA 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition		23" – Eight (8) 1/4-20 PEM nuts, 5/6" center-to-center and seven (7) 3/6-16 studs, 1" center-to-center	
Double pole, 125 – 200A Triple pole, 250A CONTROLLER Monitoring Unit Smartpack S Inputs/Outputs 6 configurable inputs*: 1-4, temperature (battery or ambient); 5, normally open or normally closed; 6, factory-wired for LVBD alarm Additional external battery breaker alarm 6 outputs: dry contact (Normally Open/Normally Closed) * See Smartpack S Panel Mount datasheet for more details (Doc. No. 242100.415.DS3). MODULES (SOLD SEPARATELY) 241122.105 Flatpack S 48V, 1000W 241122.125 Flatpack S 48V, 1800W 241122.205 Flatpack S 24V, 1000W OTHER SPECIFICATIONS Operating temperature -40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F) Storage temperature -40 to +70°C (-40 to +158°F) APPLICABLE STANDARDS Electrical Safety UL/CSA 60950-1, 2nd edition IEC 60950-1, 2nd edition IEC 60950-1, 2nd edition EMI/EMC GR-1089-CORE	Low voltage disconnect options	None or battery (LVBD)	
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241122.125 Flatpack S 48V, 1800W 241122.205 Flatpack S 24V, 1000W OTHER SPECIFICATIONS Operating temperature	MODULES (SOLD SEPARATELY)		
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OTHER SPECIFICATIONS Operating temperature	241122.125	Flatpack S 48V, 1800W	
Operating temperature -40 to +65°C (-40 to +149°F), de-rates above 45°C (113°F) Storage temperature -40 to +70°C (-40 to +158°F) APPLICABLE STANDARDS Electrical Safety UL/CSA 60950-1, 2 nd edition IEC 60950-1, 2 nd edition EMI/EMC GR-1089-CORE	241122.205	Flatpack S 24V, 1000W	
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Electrical Safety UL/CSA 60950-1, 2 nd edition IEC 60950-1, 2 nd edition EMI/EMC GR-1089-CORE	Storage temperature	-40 to +70°C (-40 to +158°F)	
edition IEC 60950-1, 2 nd edition EMI/EMC GR-1089-CORE	APPLICABLE STANDARDS		
EMI/EMC GR-1089-CORE	Electrical Safety	edition	
Environment GR-63-CORE, NEBS LEVEL 3	EMI/EMC		
	Environment	GR-63-CORE, NEBS LEVEL 3	