Cellect™ 600

48Vdc Small Cell Power Supply with Inbuilt Battery

alpha TECHNOLOGIES™

Your Power Solutions Partner

> 48V/600W telecom grade outdoor power system, Class 4/IP65

> Integrated battery backup increases system availability and end-user Quality of Experience (QoE)

> Key features enable outdoor small cell deployments

- Small physical size (16" x 9" x 6") alleviates optical intrusion concerns
- Light weight (25lb) design maximizes options for deployment on poles and walls
- Easy to install within minutes by a single technician

> Reduced OpEx resulting from maintenance-free battery & enclosure, and high efficiency rectifier design

> Advanced monitoring and control, including SNMP, at both the system level and for individual circuits

CELLECT

Cellect™ 600 overcomes all of the challenges associated with providing DC power with battery backup for small cells. This small, lightweight, connectorized unit was designed for consistent, repeatable installation. Six individual circuits, with integrated over-current protection, and plug-and-play connectors ensure a sufficient number of circuits for site components, all without having to worry about fuses or breakers. Full output power is achieved with either 120Vac or 240Vac input power and with temperatures ranging from -40 to 46°C (plus solar loading). Cellect 600 comes with a universal mounting bracket for mounting on poles, walls, or combination brackets. To meet the aesthetic challenges, the product can be offered with a primer finish that can be painted in any color needed to meet municipal or landlord requirements. The economical design and standard features provide industry-leading total cost of ownership for small cell DC power.

Power

Cellect 600 48Vdc Small Cell Power Supply with Inbuilt Battery

Part Number: 0100021-001

ELECTRICAL

AC nominal input:............100 to 277Vac
AC input frequency:.........45 to 65Hz
Output voltage: ....-48 to -55Vdc
Output power: ....600W continuous
Efficiency:.........................>94.5%
Electrical noise: ....<30mV RMS (to 10MHz)
                                            <150mV pk to pk (to 100MHz)
Acoustic noise: ....<40dBa at 1m (3ft)
Power backup: 3.2Ah

MECHANICAL

Dimensions
   mm:.................................382H x 236W x 165D (195 w/bracket)
   inches: ....15H x 9.3W x 6.5D (7.7 w/bracket)
Weight:..............................<11kg (24lbs)
Mounting: ....Bracket for pole and wall mounting
Connections (IP65 cable glands):
• Six (6) DC Output   • AC Input
• Alarms   • Ethernet

Four #10 tamper proof screws for securing the unit to the bracket

Solar shield

Universal pole/wall mount bracket

Ethernet/Remote monitoring/SNMP

Status LED

Six DC Output

Alarms

AC Input
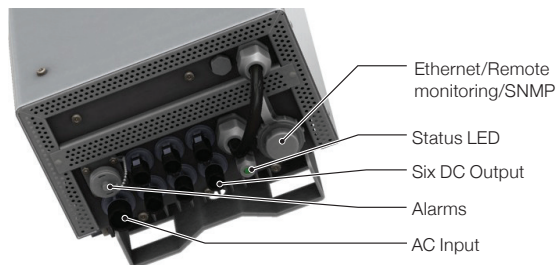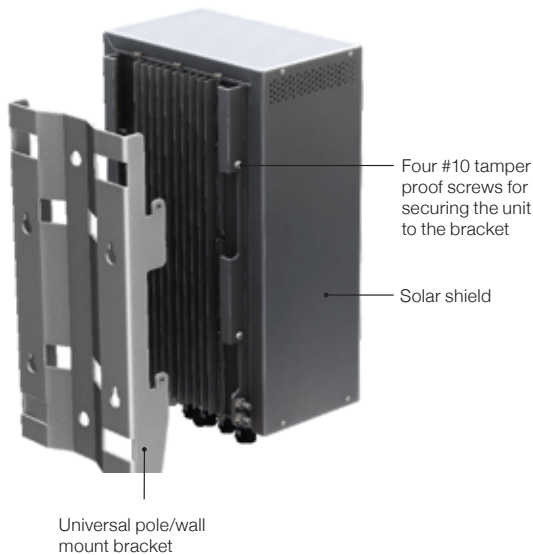
ENVIRONMENTAL

Temperature:
   Operation: ....-40 to 46°C (plus solar loading)
   Storage: ....-40 to 85°C (-40 to 185°F)
Environmental protection:........................IP65
Surge protection:..............6kV/3kA
Humidity: ....5 to 100% RH
Elevation:.........................-500 to 2000m (-1640 to 6561ft)

PERFORMANCE/FEATURES

Power backup runtime: 15 min @ 450W load
Alarms:
   • AC Fail
   • On Battery
   • BMS Failure
   • DC Error
LED: ....Green: DC Output OK
Remote monitoring:.........Ethernet, SNMP

Battery Runtime vs. Load
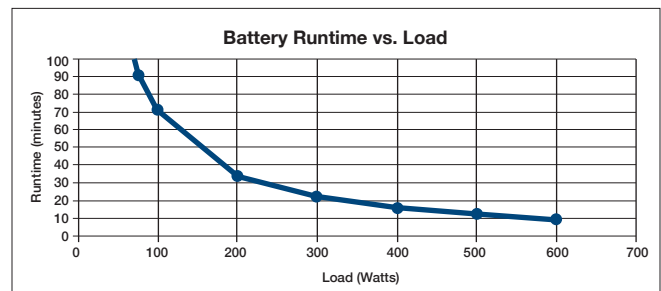
AGENCY COMPLIANCE

Safety:...............................IEC/CSA/UL 60950-1
                                            IEC/CSA/UL 60950-22
                                            CE Mark
EMC: ....CFR47 (FCC) Part 15 Class A
                                            EN 55022 class A
                                            EN 61000-3-2, 3-3
                                            ETSI 300 386-2
Immunity:..........................EN 61000-4-2, 4-3, 4-4, 4-5, 4-6, -4-11
                                            ANSI / IEEE C62.41 CatB3
NEBS:...............................GR-63-CORE, GR-1089-CORE,
                                            GR-3108-CORE, GR-3168-CORE