

Accessory: Rapid Shutdown System (RSS)

Features:

- With PLC, no additional wire needed for control
- Comply with NEC 2014, Article 690.12
- String level rapid shutdown
- Type 4 protection
- Support rack mount or solar module mount
- Support series connection up to 2 sub strings
- Support parallel strings, up to 20A
- With high voltage DC relay, high reliability

RATINGS

Delta part number	GPI00010105
Maximum system voltage	600 Vdc
Rated input current	20 A
Rated input operating voltage	50 Vdc to 550 Vdc
Rated input operating current	0 A to 20 A
Fuse Rating	NA
Maximum number of controlled circuits	1
Self-power consumption	<4 W

GENERAL DATA

Dimensions (W x H x D)	6.0 x 7.9 x 2.1 in (152 x 201 x 53 mm)
Weight	3.2 lbs (1.45 kg)
Cooling	Natural convection
DC input/output connectors	MC4 and H4
Enclosure material	Diecast aluminum
Operating temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Humidity	0% to 95%
Maximum operating altitude	6,562 ft (2,000 m) above sea level

STANDARD COMPLIANCE

Enclosure protection rating	Type 4X
Safety	UL 1741, UL 1741 CRD PVRSS, CSA-C22.2 No. 107.1-01
Rapid shutdown	NEC 2014 Article 690.12
EMC	FCC Part 15 Class B

Accessory: Auto Transfer Switch (ATS)

Features:

- Optional for E series
- Auto grid detection, no additional communication wire needed for control
- Short transferring time (<5.0s)
- Covert from 240 Vac to 120 Vac
- Up to 21 A for each phase
- UL1741, FCC certificated
- Wall-mount with bracket

OUTPUT - AC (LOADS/GRID)

Delta part number	GPI00010108
Maximum AC power output	7680 W
AC output voltage Min-Nom-Max (L-L)	211 – 240 - 264 V
Maximum continuous output current @240V	32 A
Charge battery from AC (if allowed)	Yes
Typical nighttime power consumption	<5 W

OUTPUT - AC (BACKUP MODE)

Rated AC power output	5000 W
Max AC power output - surge	7680 W for 10sec with balance load
AC output voltage Min-Nom-Max (L-N)	105 – 120 - 132 V
AC frequency Min-Nom-Max	55 - 60 - 65 Hz
Max continuous output current per phase @120V	21 A
Split phase imbalance(@rated power)	21 A
Automatic switchover time	<5 s

GENERAL SPECIFICATION

Operating temperature range	-13 °F to 131 °F(-25 °C to 55 °C)
Humidity	0% to 95%
Maximum operating altitude	9,843 ft (3,000 m)
Installation	Wall mounting
Enclosure protection rating	Type 4

MECHANICAL DESIGN

Dimensions (W x H x D)	9.2 x 15 x 5.9 in (232 x 378 x 150 mm)
Weight	30.9 lbs (14 kg)
Cooling	Natural convection
Compatible wiring gauge	AWG 10 to AWG 6
Certification	UL 1741, CSA-C22.2 No. 107.1-01



Accessory: MCI (Middle Circuit Interrupter)

Features:

- Automatic function test upon startup, ensure safety
- Enclosure protection Type 4
- Meet 2017 NEC Article 690.12 Rapid Shutdown
- No installation needed for every PV Module, make better cost performance for PV system
- With PLC, no additional cable needed

INPUT RATINGS

Delta part number	GPI00010110
Maximum system voltage	600 Vdc
Rated input operating voltage	6 Vdc to 80 Vdc
Number of input circuit	1
Rated input current	12 A

OUTPUT RATINGS

Rated output current	12 A
Control signal method	PLC signal

GENERAL DATA

Dimensions (W x H x D)	3.8 x 6.5 x 1.1 in (97.3 x 165 x 27.3 mm)
Weight	1.4 lbs (0.64 kg)
Cooling	Natural convection
DC input/ output connectors	MC4 PV connector
Enclosure material	Plastic
Operating temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Storage temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Humidity	0% to 95%
Maximum operating altitude	9,843 ft (3,000m) above sea level
Self power consumption	<3.0 W
Warranty	10 years

STANDARD COMPLIANCE

Enclosure protection rating	Type 4
Safety	UL 1741, CSA-C22.2 No. 107.1-01
Rapid shutdown	NEC 2017 Article 690.12
EMC	FCC Part 15 Class B

Accessory: Embedded Revenue Grade Meter



Features:

- Embedded, pre-installed in wiring box
- Meet ANSI C12.20, Class 0.5
- With bi-directional power & energy measurement

GENERAL SPECIFICATION

Delta part number	5029901700
Accuracy class	ANSI C12.20 Class 0.5
Rated voltage (Un)	208 V / 240 V
Extended voltage range	88% to 110%
Rated current (In)	60 A
Rated frequency (fn)	60 Hz
Pulse constant (kh)	1000 impulses /kWh
Serial reporting interval	5 s

ACCURACY

Actual active energy	Within +/- 0.5%
Starting current	0.02 A
Creeping current	Less than 5 mA
Insulation strength	6 kV for 1 min

MECHANICAL DESIGN

Dimensions (W x H x D)	2.9 x 2.2 x 1.7 in (73.7 x 55.9 x 43.2 mm)
Protection class	Type 1
Operation temperature range	-40 °F to 176 °F (-40 °C to 80 °C)
Humidity	0% to 95% non-condensing

Accessory: Energy Meter



Features:

- Optional for E series
- Up to 2 meters with different ID for storage system
- DIN rail installation in main panel
- With 2 CTs
- Suitable to US 208/240 V, LN voltage 120V
- UL 1741 certified
- Meet ANSI C12.20, Class 1.0

GENERAL SPECIFICATION

Delta part number	5020532500
Accuracy class	ANSI C12.20 Class 1.0
Rated voltage(L1N and L2N)	120 V
Extended voltage range	88% to 110%
Rated current(In)	With two 200 A rated CT
A frequency	60 Hz
Serial reporting interval	5 s
Meter communication interfaces	RS485
Response time	≤1 s

ACCURACY

CT rated RMS current	200 A
1%-100% of CT current	1%

MECHANICAL SPEC

Dimensions (W x H x D)	2.2 x 3.5 x 2.1 in (54.0 x87.8 x 52.0 mm)
Weight	0.45 lbs (0.2 kg)
Protection class	Type 1
Operation temperature range	-22 °F to 131 °F (-30 °C to 55 °C)
Mounting type	DIN-Rail, 1.38 in (35 mm)
Certification	UL 1741

Accessory: Ethernet & WiFi Communication Module



Features:

- Embedded, pre-installed in wiring box
- Support 802.11 b/g/n, 2.4 GHz
- FCC certificated

WiFi SPEC

Delta part number	5042106700
Standard	2.4 GHz 802.11 b/g/n compatible
Security	802.11i (WPA, WPA2)
Working mode	Client
Data rate	Up to 50 Mbps (Theoretical value)
Antenna	SMA, support one transmit and one receive path

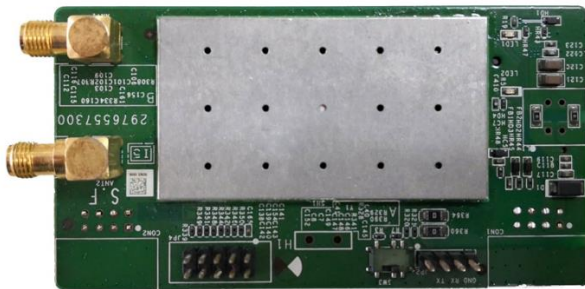
Ethernet SPEC

Standard	IEEE 802.3 for 10 BaseT IEEE 802.3u for 100 BaseTX
Data rate	10/100 Mbps, auto MDI/MDIX

MECHANICAL SPEC

Dimensions (W x H)	1.6 x 3.4 in (40.6 x 86.4 mm)
Weight	0.045 lbs (0.02 kg)
Operating temperature range	-4 °F to 158 °F (-20 °C to 70 °C)
Humidity	5% to 95% non-condensing
Certification	FCC

Accessory: WiFi & 3G/4G cellular CAT-M Communication Module



Features:

- Embedded, pre-installed in wiring box
- Support 802.11 b/g/n, 2.4 GHz
- FCC certificated

CELLULAR NETWORKS

Frequencies	Cat M1: LTE FDD: B2/B4/B12/B1 EGPRS:3850/900/1800/1900 Mhz
Speed	Cat M1:Max. 300K bps (DL), Max. 375 Kbps (UL)

WiFi SPEC

Standard	2.4 GHz 802.11b/g/n compatible
Security	802.11i (WPA, WPA2)
Working mode	Client
Data rate	Up to 150 Mbps (Theoretical value)
Antenna	Support one transmit and one receive path (1T1R)

GENERAL SPEC

Dimensions (W x H)	1.6 x 3.4 in (40.6 x 86.4 mm)
Operation temperature range	-40 °F to 158 °F (-40 °C to 70 °C)
Humidity	5% to 95% non-condensing
Antenna	SMA
Certification	FCC

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