

# 50/60kW, 1000Vdc String Inverters for North America

The 50 & 60kW (55 & 66kVA) medium power CPS three phase string inverters are designed for ground mount, large rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 98.8% peak and 98.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 50/60kW products ship with either the standard wire-box or the H4 style wire-box, each fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The CPS Flex Gateway enables monitoring, controls and remote product upgrades.

### **Key Features**

- 55 & 66kVA rating allows max rated Active Power @±0.91PF
- NEC 2014/17 compliant & UL listed Arc-Fault circuit protection
- 0-90° Mounting orientation for lay flat roof installs
- Touch safe DC Fuse holders adds convenience and safety
- Optional Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- Optional factory installed H4 connectors
- 3 MPPT's with 5 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL1741 SA Certified to CA Rule 21
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years
- Generous 1.5 DC/AC Inverter Load Ratio



CPS SCA50KTL-DO/US-480 CPS SCA60KTL-DO/US-480



50/60kW Standard Wire-box



50/60kW H4 Wire-box







Model Name	CPS SCA50KTL-DO/US-480	CPS SCA60KTL-DO/US-480
OC Input	ZEIAM (20IAM x = MDDT)	OOLAN (OOLAN AADDT)
Max. PV Power	75kW (30kW per MPPT)	90kW (33kW per MPPT)
Max. DC Input Voltage	1000Vdc	
Operating DC Input Voltage Range	200-950Vdc 330V / 80W	
Start-up DC Input Voltage / Power		8077
Number of MPP Trackers	3	
MPPT Voltage Range @ PF>0.991	480-850Vdc	540-850Vdc
Max. PV Short-Circuit Current (Isc x 1.25)	204A (68A per MPPT)	
Number of DC Inputs	15 inputs, 5 per MPPT	
DC Disconnection Type	Load rated I	
DC Surge Protection	Type II MOV, 2800V <sub>C</sub>	, 20kA I <sub>TM</sub> (8/20μS)
AC Output		
Rated AC Output Power @ PF>0.99 to ±0.91 <sup>2</sup>	50kW	60kW
Max. AC Apparent Power	55kVA	66kVA
Rated Output Voltage	480V	
Output Voltage Range <sup>3</sup>	422 - 528Vac	
Grid Connection Type	3Φ / PE / N (Neutral optional)	
Max. AC Output Current @480Vac	66.2A	79.4A
Rated Output Frequency	60H	
Output Frequency Range <sup>3</sup>	57 - 6	*·· <del>-</del>
Power Factor	>0.99 (±0.8 a	• '
Current THD @ Rated Load	<39	
Max. Fault Current Contribution (1 Cycle RMS)	64.1	A
Max. OCPD Rating	110A	125A
AC Disconnection Type	Load rated /	AC switch
AC Surge Protection	Type II MOV, 1240V <sub>C</sub>	, 15kA I <sub>TM</sub> (8/20μS)
System and Performance		
Гороlоду	Transform	nerless
Max. Efficiency	98.8	%
CEC Efficiency	98.5%	
Stand-by / Night Consumption	<10	V
Environment		
Enclosure Protection Degree	NEMA T	ype 4X
Cooling Method	Variable speed cooling fans	
Operating Temperature Range <sup>4</sup>	-22°F to +140°F / -	· 30°C to +60°C <sup>4</sup>
Non-Operating Temperature Range <sup>5</sup>	No low temp minimum to +	158°F / +70°C maximum <sup>5</sup>
Operating Humidity	0 to 10	00%
Operating Altitude	13123.4ft / 4000m (derating	g from 9842.5ft / 3000m)
Audible Noise	<60dBA @ 1r	m and 25°C
Display and Communication		
Jser Interface and Display	LCD+I	LED
nverter Monitoring	SunSpec, Mod	dbus RS485
Site Level Monitoring	CPS Flex Gateway (	1 per 32 inverters)
Modbus Data Mapping	CPS	S
Remote Diagnostics / FW Upgrade Functions	Standard / (with	Flex Gateway)
Mechanical		
Dimensions (HxWxD)	39.4 x 23.6 x 10.24in. (1	1000 x 600 x 260mm)
Veight	Inverter: 123.5lbs/56kg;	Wire-box: 33lbs/15kg
Mounting / Installation Angle <sup>6</sup>	0 to 90 degrees from horizonta	l (vertical, angled, or lay flat) <sup>6</sup>
AC Termination <sup>7</sup>	M8 Stud Type Terminal Block (Wire range:	#6 - 3/0AWG CU/AL <sup>7</sup> , Lugs not supplied)
OC Termination	Screw Clamp Fuse Holder (Wire range: #14	4 - #6AWG CU), Optional H4 (Amphenol)
Fused String Inputs (5 per MPPT)	15A fuses provided (Fuse va	lues up to 30A acceptable)
Safety		
Certifications and Standards	UL1741SA-2016, UL1699B, CSA-C22.2 NO.	107.1-01, IEEE1547a-2014; FCC PART15
Selectable Grid Standard and SRD	IEEE1547a-201	
Smart-Grid Features	Voltage-RideThru, Frequency-RideThru, Soft	-Start, Volt-Var, Frequency-Watt, Volt-Watt
Warranty		
Standard	10 ye	ars

<sup>1)</sup> See user manual for further information regarding MPPT Voltage Range when operating at non-unity PF.
2) Active Power Derating begins; at PF=±0.91 to ±0.8
3) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.
4) Active Power Derating begins; at 40°C when PF=±0.9 and MPPT ≥Vmin, at 45°C when PF=1 and MPPT ≥Vmin, and at 50°C when PF=1 and MPPT ∨ ≥ 700Vdc
5) See user manual for further requirements regarding non-operating conditions.
6) Shade Cover accessory required for installation angles of 75 degrees or less.
7) AL requires bi-metallic compression lug or bi-metallic adapter.



# 100/125kW, 1500Vdc String Inverters for North America



CPS SCH100/125KTL-DO/US-600

The 100 & 125kW medium power CPS three phase string inverters are designed for ground mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 99.0% peak and 98.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 100/125kW products ship with the standard wire-box, each fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The CPS Flex Gateway enables communication, controls and remote product upgrades.

### **Key Features**

- NEC 2014/17 compliant & UL listed Arc-Fault circuit protection
- Touch safe DC Fuse holders adds convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 16 and 20 inputs for maximum flexibility
- Copper and Aluminum compatible AC connections

- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 compatible)
- kVA Headroom yields 100kW @ 0.9PF and 125kW @ 0.95PF
- Generous 1.5 DC/AC Inverter Load Ratio
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years





100/125kW Standard Wire-box





100/125kW Centralized Wire-box



Model Name	CPS SCA100KTL-DO/US-600	CPS SCA125KTL-DO/US-600	
DC Input			
Max. PV Power	150kW	187.5kW	
Max. DC Input Voltage	1500V		
Operating DC Input Voltage Range	860-1450Vdc		
Start-up DC Input Voltage / Power	900V / 250W		
Number of MPP Trackers		1	
MPPT Voltage Range	870-1	300Vdc	
Max. PV Input Current (Isc x1.25)	220A	275A	
Number of DC Inputs	16 inputs	20 inputs	
DC Disconnection Type		d DC switch	
DC Surge Protection	Type II MOV, Up=2.	5kV , In=20kA(8/20us)	
AC Output	21 - 7-1	. , ( ,	
Rated AC Output Power	100kW	125kW	
Max. AC Output Power <sup>1</sup>	100kVA (111KVA @ PF>0.9)	125kVA (132KVA @ PF>0.95)	
Rated Output Voltage		0Vac	
Output Voltage Range <sup>2</sup>		528-660Vac	
Grid Connection Type <sup>3</sup>	3Φ / PE / N (Neutral optional)		
Nominal AC Output Current @600Vac	106.9A	127.2A	
Rated Output Frequency		0Hz	
Output Frequency Range <sup>2</sup>		-63Hz	
Power Factor	>0.99 (±0.8 adjustable)	>0.99 (±0.8 adjustable)	
Current THD		20.99 (±0.6 adjustable)	
AC Disconnection Type		(Standard Wire-box only)	
		5kV , In=20kA(8/20us)	
AC Surge Protection	Type II WOV, Op-2.	3KV , III-20KA(0/20us)	
System	Transfe	ormerless	
Topology May Efficiency		9.0%	
Max. Efficiency		3.5%	
CEC Efficiency		:2W	
Stand-by / Night Consumption  Environment		-211	
	NEMA	Tuno 4V	
Enclosure Protection Degree	NEMA Type 4X  Variable speed cooling fans		
Cooling Method		°C (derating from +113°F / +45°C)	
Operating Temperature Range		,	
Non-Operating Temperature Range <sup>4</sup>		°C to +70°C maximum⁴ 100%	
Operating Altitude		0m (no derating)	
Operating Altitude Audible Noise		1m and 25°C	
Display and Communication	~0JUDA@	illi alid 23 C	
User Interface and Display	LED Indicate	ors, WiFi + APP	
1 7		ion (Standard Wire-box only)	
Inverter Monitoring		y (1 per 64 inverters)	
Site Level Monitoring Modbus Data Mapping		pec/CPS	
Modbus Data Mapping  Remote Diagnostics/FW/ Linguistics		ndard	
Remote Diagnostics/FW Upgrade Functions  Mechanical	Sta	iliualu	
Dimensions (WxHxD)		x250mm) with Standard Wire-box 250mm) with Centralized Wire-box	
Weight		25kg (standard); 33lbs / 15kg (centralized)	
Mounting/Installation Angle	-	orizontal (vertical, angled)	
AC Termination <sup>5</sup>		, , , , , , , , , , , , , , , , , , , ,	
DC Termination	Screw Clamp Fuse Holder (Wire range	M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL <sup>5</sup> , Lugs not supplied)  Screw Clamp Fuse Holder (Wire range: #12 - #6AWG CU) - Standard Wire-box  Busbar, M8 PEMserts (Wire range: #1AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box	
Fused String Inputs		/alues of 15/25/30A available)	
Safety		·	
Safety and EMC Standard	UL1741SA-2016 <sup>6</sup> . UL1699B. CSA-C22 2 N	IO.107.1-01, IEEE1547a-2014; FCC PART15	
Grid Standard <sup>6</sup>		014, CA Rule 21 <sup>6</sup>	
Smart-Grid Features		iru, Soft-Start, Volt-Var, Frequency-Watt	
Warranty	,,,	. , , , , , , , , , , , , , , , , , , ,	
Standard	10	years	
		20 years	

<sup>1) &</sup>quot;Max. AC Apparent Power" rating valid within MPPT voltage range and temperature range of -30°C to +40°C (-22°F to +104°F) for 100KW PF ≥0.9 and 125KW PF ≥0.95 2) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

3) Wye neutral-grounded, Delta may not be corner-grounded.

<sup>4)</sup> See user manual for further requirements regarding non-operating conditions.
5) AL requires bi-metallic compression lug or bi-metallic adapter.
6) Certifications Pending.

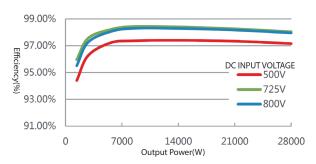


# 23/28kW, 1000Vdc String Inverters for North America

The medium power series of grid-tied, transformerless inverters help to accelerate the use of 1000Vdc and three phase string architecture for commercial and small ground mount utility applications. An NRTL approved, cost effective alternative to central inverters enabling BoS cost savings, high harvest performance and modular design building blocks. These models provide up to 98.6% conversion efficiency and wide operating window of 300-900Vdc and dual MPPT's for maximum cash-flow generation.

# **Efficiency Curve**

CPS SCA28KTL-DO/US-480



### **High Efficiency**

- Maximum efficiency of 98.6%, CEC efficiency of 98%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- 2 MPPTs to achieve higher system efficiency
- Transformerless design

#### **High Reliability**

- "Electrolyte-free design" for improved long-term reliability
- Standard warranty: 10 years, extension up to 20 years
- Advanced thermal design, with variable speed fans
- Ground-fault detection and interruption circuit
- AFCI Integrated (per UL1699B)

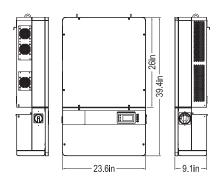






CPS SCA23KTL-DO/US-480 CPS SCA28KTL-DO/US-480

#### **Dimensions**



#### **Broad Adaptability**

- NEMA 4X (IP65) rated for outdoor applications
- Utility interactive controls: Active power derating, reactive power control
- Separable wiring box design for fast service
- Integrated DC & AC disconnect switches
- Wide MPPT range for flexible string sizing
- 1000V Max. DC input voltage for flexible configuration
- 15 90 degree from horizontal installation angle



Model Name	CPS SCA23KTL-DO/US-480	CPS SCA28KTL-DO/US-480
DC Input	01 0 00/1201(TE-D0/00-400	G. G
Max. PV Power	31kW (15.5kW per MPPT)	38kW (19kW per MPPT)
Max. DC Input Voltage	1000V	
Operating DC Input Voltage Range	240-950Vdc	
Start-up DC Input Voltage / Power	330V / 300W	
Number of MPP Trackers	2	
MPPT Voltage Range	480-800Vdc	500-800Vdc
Max. PV Short-Circuit Current (Isc x 1.25)	82A (41A per MPPT)	96A (48A per MPPT)
Number of DC Inputs	8 inputs, 4 p	
DC Disconnection Type	Load rated D	
• •	Type II MOV, 2000V <sub>C</sub>	
DC Surge Protection AC Output	Type II MOV, 2000VC	, τοκλ τιμ (ο/20μο)
Rated AC Output Power	23kW	28kW
·	23kVA	28kVA
Max. AC Apparent Power		
Rated Output Voltage	480Vac 422 - 528Vac	
Output Voltage Range <sup>1</sup>		
Grid Connection Type	3Φ / PE	
Nominal AC Output Current @480Vac	27.7A	33.7A
Rated Output Frequency	60H	
Output Frequency Range	57 - 63	
Power Factor	>0.99 (±0.8 a	
Current THD @ Rated Load	<3%	
Max. Fault Current Contribution (1 Cycle RMS)	69.6A	
AC Disconnection Type	Load rated A	
AC Surge Protection	Type II MOV, 1500V <sub>C</sub>	,10kA I <sub>TM</sub> (8/20μS)
System and Performance		
Topology	Transform	
Max. Efficiency	98.60	
CEC Efficiency	98.00	
Stand-by / Night Consumption	<1W	l
Environment		
Enclosure Protection Degree	NEMA Ty	•
Cooling Method	Variable speed	-
Operating Temperature Range	-22°F to +140°F / - 30°C to +60°C	
Non-Operating Temperature Range <sup>2</sup>	No low temp minimum to +1	
Operating Humidity	0 to 95%, non-	•
Operating Altitude	13123.4ft / 4000m (derating	from 6561.7ft / 2000m)
Audible Noise	<50dBA @ 1n	n and 25°C
Display and Communication		
User Interface and Display	LCD+L	
Inverter Monitoring	Modbus F	RS485
Site Level Monitoring	Up to 32 inverter	s per network
Modbus Data Mapping	CPS	3
Remote Diagnostics	Standa	ard
Mechanical		
Dimensions (HxWxD)	Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); W	ire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)
Weight	Inverter: 104lbs/47kg; \	Wire-box: 20lbs/9kg
Mounting / Installation Angle <sup>3</sup>	15 to 90 degrees	
AC Termination	Screw Clamp Terminal Block (Wire	e range: #14 - 1/0AWG CU/AL)
DC Termination	Screw Clamp Fuse Holder (Wir	e range: #14 - #6AWG CU)
Fused String Inputs (4 per MPPT)	15A fuses provided (Fuse val	ues up to 30A acceptable)
Safety		
Certifications and Standards	UL1741-2010, UL1699B, CSA-C22.2 NO	0.107.1-01, IEEE1547; FCC PART15
Selectable Grid Standard	IEEE 154	7-2003
Warranty		
Standard	10 years	
Extended Terms	15 and 20 years	

The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.
 See user manual for further requirements regarding non-operating conditions.
 Shade Cover accessory required for installation angles of 75 degrees or less.

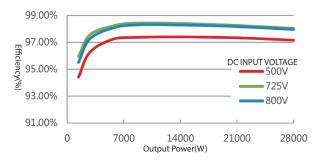


# 36kW, 1000Vdc String Inverters for North America

The medium power series of grid-tied, transformerless inverters help to accelerate the use of 1000Vdc and three phase string architecture for commercial and small ground mount utility applications. An NRTL approved, cost effective alternative to central inverters enabling BoS cost savings, high harvest performance and modular design building blocks. These models provide up to 98.5% conversion efficiency and wide operating window of 240-950Vdc with dual MPPT's for maximum energy harvest.

## **Efficiency Curve**

CPS SCA36KTL-DO/US-480



# **High Efficiency**

- Maximum efficiency of 98.5%, CEC efficiency of 98%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- 2 MPPTs to achieve higher system efficiency
- Transformerless design

### **High Reliability**

- Standard warranty: 10 years, extension up to 20 years
- Advanced thermal design, with variable speed fans
- Ground-fault detection and interruption circuit
- AFCI Integrated (per UL1699B)
- UL1741 SA Certified to CA Rule 21

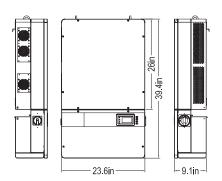






CPS SCA36KTL-DO/US-480

#### **Dimensions**



## **Broad Adaptability**

- NEMA 4X (IP65) rated for outdoor applications
- Utility interactive controls: Active power derating, reactive power control
- Separable wiring box design for fast service
- Integrated DC & AC disconnect switches
- Wide MPPT range for flexible string sizing
- 1000V Max. DC input voltage for flexible configuration
- 15 90 degree from horizontal installation angle
- AC output terminal compatible with AL/CU wire



ODO COMONTI DOUIO 400	
CPS SCA36KTL-DO/US-480	
E ALAM (OZIAM MDDT)	
54kW (27kW per MPPT)	
1000Vdc	
240-950Vdc	
320V / 80W	
2	
540-800Vdc	
125A (62.5A per MPPT)	
10 inputs, 5 per MPPT	
Load rated DC switch	
Type II MOV, $2000V_C$ , $10kA I_{TM}$ (8/20 $\mu$ S)	
36kW	
36kVA	
480Vac	
422 - 528Vac	
3 Φ / PE / N (Neutral optional)	
43.5A	
60Hz	
57 - 63Hz	
>0.99 (±0.8 adjustable)	
<3%	
73.2A	
Load rated AC switch	
Type II MOV, 1500V <sub>C</sub> ,10kA I <sub>TM</sub> (8/20μS)	
)	
Transformerless	
98.5%	
98.0%	
<1W	
····	
NEMA Type 4X	
Variable speed cooling fans	
-22°F to +140°F / - 30°C to +60°C (derating from +113°F / +45°C)	
No low temp minimum to +158°F / +70°C maximum	
No low temp minimum to 1301 / 170 o maximum	
0 to 95% non-condensing	
0 to 95%, non-condensing	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m) <50dBA @ 1m and 25°C	
13123.4ft / 4000m (derating from 6561.7ft / 2000m) <50dBA @ 1m and 25°C  LCD+LED	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg  15 to 90 degrees from horizontal	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg  15 to 90 degrees from horizontal  Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg  15 to 90 degrees from horizontal  Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL)  Screw Clamp Fuse Holder (Wire range: #14 - #6AWG CU)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg  15 to 90 degrees from horizontal  Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C  LCD+LED  Modbus RS485  Up to 32 inverters per network  CPS  Standard  Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm)  Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg  15 to 90 degrees from horizontal  Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL)  Screw Clamp Fuse Holder (Wire range: #14 - #6AWG CU)  15A fuses provided (Fuse values up to 30A acceptable)	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C LCD+LED Modbus RS485 Up to 32 inverters per network CPS Standard Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm) Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg 15 to 90 degrees from horizontal Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL) Screw Clamp Fuse Holder (Wire range: #14 - #6AWG CU) 15A fuses provided (Fuse values up to 30A acceptable) UL1741SA-2016, UL1699B, CSA-C22.2 NO.107.1-01, IEEE1547; FCC PART15	
13123.4ft / 4000m (derating from 6561.7ft / 2000m)  <50dBA @ 1m and 25°C LCD+LED Modbus RS485 Up to 32 inverters per network CPS Standard Inverter: 26 x 23.6 x 9.1in. (660 x 600 x 230mm); Wire-box 13.4 x 23.6 x 9.1in. (340 x 600 x 230mm) Inverter: 121lbs/55kg; Wire-box: 24lbs/11kg 15 to 90 degrees from horizontal Screw Clamp Terminal Block (Wire range: #14 - 1/0AWG CU/AL) Screw Clamp Fuse Holder (Wire range: #14 - #6AWG CU) 15A fuses provided (Fuse values up to 30A acceptable) UL1741SA-2016, UL1699B, CSA-C22.2 NO.107.1-01, IEEE1547; FCC PART15 IEEE 1547-2003, CA Rule 21	
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The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.
 See user manual for further requirements regarding non-operating conditions.
 Shade Cover accessory required for installation angles of 75 degrees or less.