

25kW 208V, 1000Vdc String Inverters for North America

The 25kW (25kVA) CPS three-phase string inverters are designed for 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 97.0% peak and 96.5% 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 25KTL product ships with the Rapid Shutdown Wirebox, fully integrated and separable with touch-safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown Wire-box enables PVRSS-certified module-level rapid shutdown when used with the Tigo TS4-A-F/TS4-A-2F products and APS RSD-S-PLC/RSD-D products. The CPS FlexOM Gateway enables monitoring, controls and remote product upgrades.

Key Features

- NEC 2017/2020 PVRSS-certified rapid shutdown
- NEC 2017-compliant & UL-listed arc-fault circuit protection
- UL 1741-SB and IEEE 1547-2018 certified
- 15-90° mounting orientation for low-profile roof installs
- Optional FlexOM Gateway enables remote firmware upgrades
- Integrated AC & DC disconnect switches
- 3 MPPTs with 2 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL 1741-SA certified to CA Rule 21, including SA14 FW and SA15 VW
- Separable wire-box design for fast service
- Standard 10-year warranty with extensions to 20 years









SCA25KTL (208V) Rapid Shutdown Wire-box











L-DO/US-208	
45kW (17kW per MPPT)	
0Vdc	
50Vdc	
/80W	
3	
50Vdc	
per MPPT)	
Per MPPT	
I DC switch	
_C , 20kA I _{TM} (8/20μS)	
kW	
kVA	
8Vac	
228Vac	
eutral optional)	
.5A	
Hz	
63Hz	
adjustable)	
3%	
0.92 PU)	
5A	
ted AC switch	
['] _C 15kA I _{TM} (8/20μS)	
d	
merless	
0%	
5%	
3W	
- 47	
Type 4X	
d cooling fans	
/ - 30°C to +60°C	
+158°F / +70°C maximum	
100%	
ng from 9842.5ft / 3000m)	
Im and 25°C	
+LED	
odbus RS485	
y (1 per 32 inverters)	
PS	
FlexOM Gateway)	
(1000 x 600 x 260mm)	
g; wire-box: 33lbs/15kg	
rizontal (vertical or angled)	
: #6 - 3/0AWG CU/AL, lugs not supplied)	
wire range: #14 - #6AWG CU	
alues up to 30A acceptable)	
22.2 NO.107.1-01, IEEE1547-2018, FCC PART15	
018 ⁷ , CA Rule 21, ISO-NE, HECO	
Specified-PF, Volt-VAR, Freq-Watt, Volt-Watt	
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rears	
20 years	
'E	

- 1) The "output voltage range" and "output frequency range" may differ according to the specific grid standard.
 2) Active power derating begins at 45°C when PF=1 and MPPT≥Vmin, and at 50°C when PF=1 and MPPT≥700Vdc
 3) See user manual for further requirements regarding non-operating conditions.
 4) Shade Cover accessory required for installation angles of 75 degrees or less.
 5) RSD wire-box only includes fuses and fuse holders on the positive polarity, compliant with NEC 2017/2020 Section 690.9(C).
 6) Fuse values above 20A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for further details.
 7) Firmware version 4.0 or later required.