

CAPOSOL Community Charging Station



**Solar-Powered Charging and Basic Power Access
for Off-Grid Communities**

1 Community Power Access

2 Direct Use of Daytime Solar Power

3 Reduced Battery Stress

Product Overview

CAPOSOL Community Charging Station is an off-grid solar-powered system designed to provide community charging services and basic power access where grid electricity is limited or unavailable.

It is suitable for schools, community facilities, displacement sites, returnee communities, and remote humanitarian service points.

The system provides power for lighting, device charging, and other small electronic devices. Optional solar chargers and rechargeable LED lanterns can also be combined to improve power access across the wider community.

Charging Station Function

The standard configuration includes 10 lockable charging lockers with USB charging cables. Each locker is equipped with two USB-C charging cables, providing 20 USB-C cables as standard for both AC and DC models.

Optional USB charging units can be added on the top panel, providing 40 additional ports for the AC model and up to 52 ports for the DC model to support high-volume device charging.

AC Model / DC Model

The system is available in AC and DC models.

The AC model combines a basic AC power system with a standard charging locker unit. It can provide power for lighting and small electronic devices inside facilities, while also supporting charging services. Optional USB charging units can further expand charging capacity.

The DC model operates without an inverter and is designed mainly for charging applications. It supports efficient daytime charging of small devices directly from solar power, including battery-less operation when required.

Reduced Battery Dependency

The system supports **pass-through solar technology**, enabling daytime solar power to be used as directly as possible.

This helps reduce unnecessary battery charging and discharging, lowering battery stress, replacement costs, and maintenance needs.

Even if the battery reaches the end of its service life, the system can continue providing charging services during daytime when sufficient solar power is available.

Technical Specifications

Item	AC Model	DC Model
Product Name	CAPOSOL Community Charging Station	
Model	CAPOSOL CPS-D400-AC	CAPOSOL CPS-D400-DC
System Voltage	DC 24V	DC 24V
Solar Input	1.2 to 1.4 kW recommended	
Inverter	700 W	No inverter
Standard Charging	20 USB-C cables in 10 lockable lockers	
Optional USB Charging	AC: up to 40 ports	DC: up to 52 ports
Battery-less Operation	Supported for daytime use	
Size	W 860 × D 545 × H 1000 mm	