

100% RECYCLED PLASTIC. 100% RECYCLABLE.

# RECHARGEIT



SAME LANGUAGE

**FAST  
CHARGING**



## CHARGING PROTOCOLS



**LESS  
WAITING**



**MORE  
SAFETY**



**MORE  
COMPATIBILITY**

## FAST-CHARGING PROTOCOLS:

# HOW DEVICES & CHARGERS TALK POWER

Charging protocols are the “language” that devices and chargers use to communicate. They decide how much voltage and current can safely flow from charger to battery. This digital handshake ensures fast, efficient, and safe charging without overheating or damaging the battery.



## HOW CHARGING WORKS: THE CONVERSATION BEHIND THE CHARGE



### DEVICE & CHARGER HANDSHAKE (Protocol Selection)

When you plug in, the device and charger run a permanent “conversation.” They check which charging protocols they both understand (PD, QC, PPS, etc.) and agree on one to use (Handshake).



### AGREEING ON POWER (Protocol Rules)

Based on that handshake, the charger offers a specific voltage (V) and current (A). Together, that’s the wattage (W) = how fast the power flows.



### SMART ADJUSTMENTS (Protocol Negotiation in Action)

Advanced protocols (like PPS) allow real-time adjustments to voltage/current. This keeps the device cooler and prevents stress on the battery, extending its lifespan.



### SAFETY OVERSIGHT (Protocol + BMS)

The protocol itself includes built-in safety standards (cutoffs, limits), while the Battery Management System (BMS) inside the device adds another safety layer by monitoring heat and battery health.



## CORE CHARGING PROTOCOLS

### USB POWER DELIVERY (PD)

Universal standard across laptops, phones & tablets. Up to 240W.

### PROGRAMMABLE POWER SUPPLY (PPS)

Advanced PD feature with fine-tuned voltage steps. Improves efficiency & reduces heat. Widely used in Samsung devices.

### QUALCOMM QUICK CHARGE (QC)

Widely used in Android devices. Provides faster charging with higher voltage profiles.

### WIRELESS (QI, QI2, QI2 25W, MAGSAFE)

Convenient cable-free charging. Magnetic alignment improves speed & safety.

### BRAND PROTOCOLS

Some brands also use their own proprietary protocols (Huawei, Oppo, Vivo etc.), which are layered on top of universal standards like PD.

## CHECKLIST FOR FAST CHARGING

- ✓ Device supports a fast-charging protocol
- ✓ Charger matches that protocol
- ✓ High-quality cable with optimal power-delivery

## RECHARGE ADVANTAGE

Our recharge chargers are built to support all major fast-charging protocols.

That means your devices get safe, reliable, fast charging, whatever brand you use.