



# IT-E255A/ M Quick Charger Controller

ITECH IT255A/M quick charger controller provides QC2.0, QC3.0, QC4.0, PE+, PE2.0+, USB PD2.0 and USB PD3.0/USB PPS 7 types of protocols for automatically or manually quick charger loading test.

It can simulate the fast charge control signal of smartphone, tablet and notebook, which is suitable for the test of smartphone/tablet charger, AC-DC adapter, mobile power bank, car charger and wall charger.

## IT-E255A

IT-E255A is automatic version with big LED screen, which can connect to IT8500+ electronic load via TTL interface. It can be controlled by PC software via USB interface and be offline controlled whenever needed. It provides a Micro USB and a USB Type C hardware interface for DUT connection.



IT-E255A/M Appearance (the front view)

## IT-E255M

IT-E255M is manual version with big LED screen, which can support IT8500+, IT8800, IT8700 electronic loads connection and simulate the loading of quick charger. It provides a Micro USB and a USB Type C hardware interface for DUT connection.



IT-E255A connectors

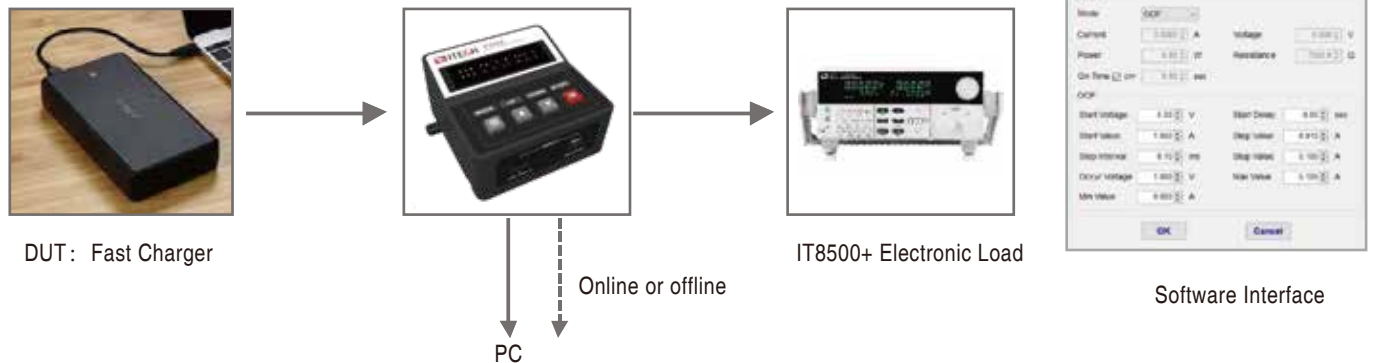
## Applications



## IT-E255A Automatic Test

IT-E255A controlled by PC software can fulfill all the functions of Quick charger controller and partial functions of e-load, including list, OCP/ OPP test and comparison.

Programs can be written into the Quick charger controller, thus the Quick charger controller can do mass production test without the PC.



IT-E255A/ M Quick Charger Controller

## Manual Operation guide

MODE		QC 2.0	QC 3.0	PE+	PE+ 2.0	USB PD 2.0	USB PD 3.0
UP	Click	5V→9V→12V→20V	Increase at 0.2V step	5V→9V→12V→20V	Increase at 0.5V step	POS 1~7	POS1~7
	Hold	NA	5V→9V→12V→20V	NA	5V→9V→12V→20V	NA	PPS
DOWN	Click	5V←9V←12V←20V	Decrease at 0.2V step	5V←9V←12V←20V	Decrease at 0.5V step	POS 1~7	POS1~7
	Hold	NA	5V←9V←12V←20V	NA	5V←9V←12V←20V	NA	PPS
Up + Down	Click	NA	NA	Time interval increase/decrease 0.2s		NA	PPS return to PD3.0
	Hold	NA	NA	Time interval increase/decrease 0.1s continuously		NA	NA
START		Start to change	Start to change	Start to change the voltage or confirm time interval setting		Start to change	Start to change

\*1 During the PE test, turn off the e-load before changing the voltage, and then press START and turn on the e-load within the preset time interval.

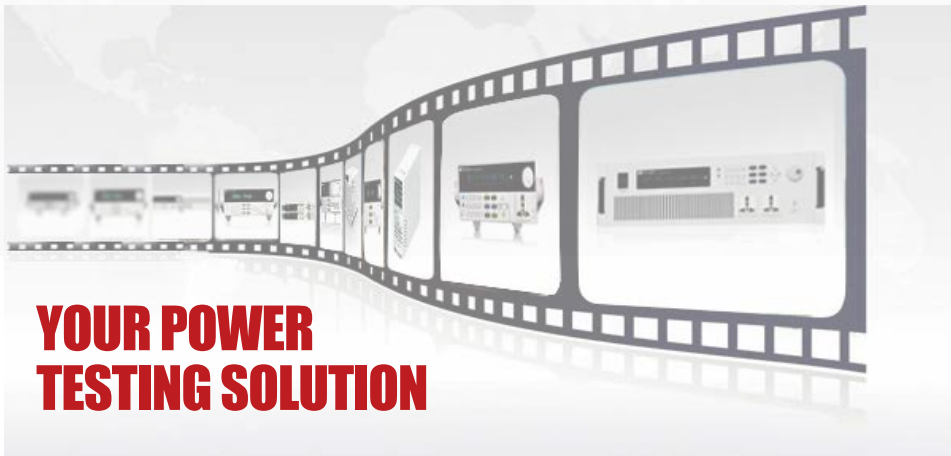
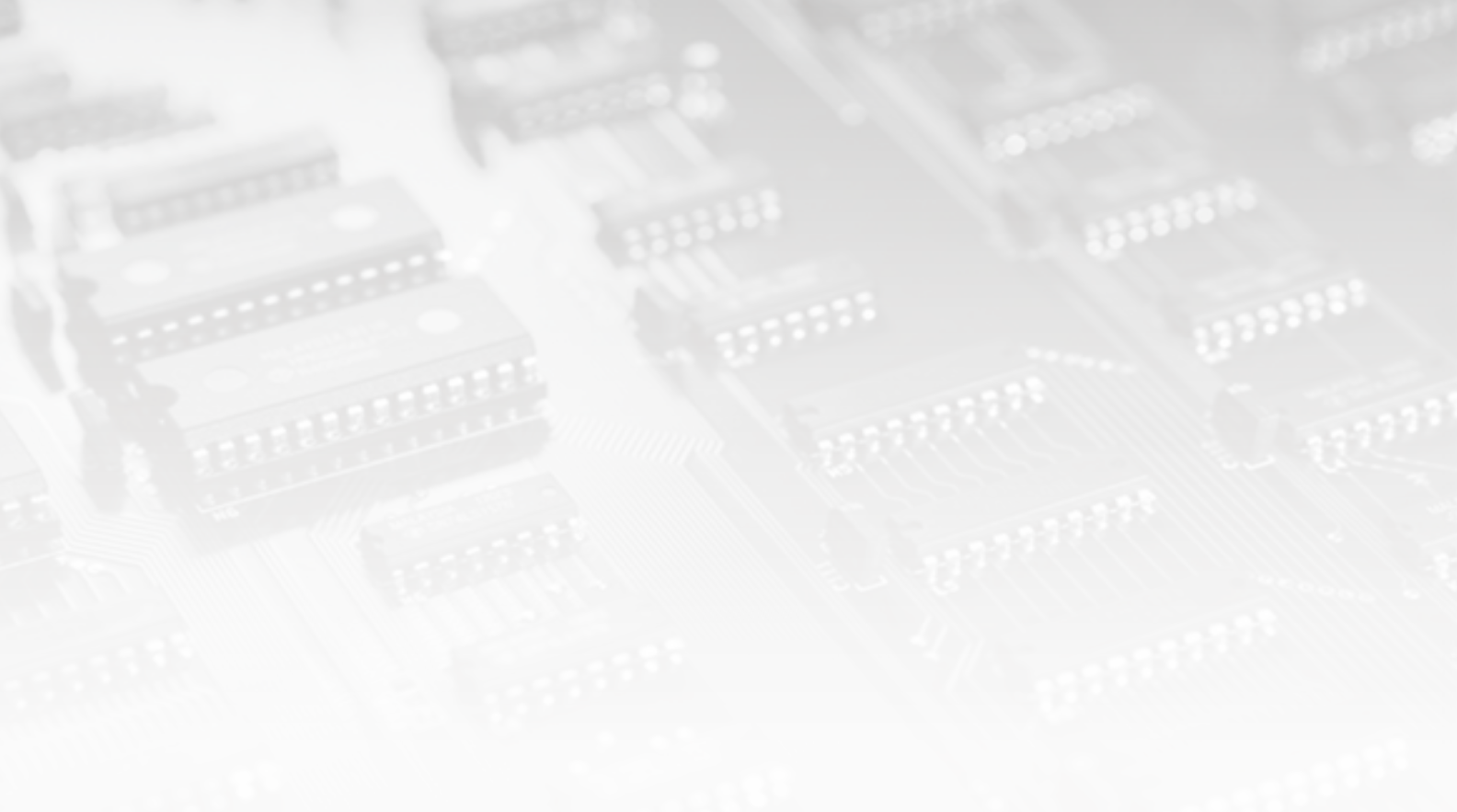
\*2 PPS is one function of USB PD3.0, which could program V & I.

### IT-E255A Specification V1.0

I/O Interfaces	
Micro USB USB Type C	20V 5A max
OUT	20V 5A max
Communication Interface	
TTL ( connect to IT8500+ series)	
USB Type A Interface( USB Virtual Com Port、 USBTMC)	
Power source (with USB 5V 1A wall charger)	
Input Voltage	5V 1A max
Dimension (L*W*H/mm)	95*95*47.8 mm
Net Weight	0.6Kg max

### IT-E255M Specification V1.0

I/O Interfaces	
Micro USB USB Type C	20V 5A max
OUT	20V 5A max
Power source (with USB 5V 1A wall charger)	
Input Voltage	5V 1A max
Dimension (L*W*H/mm)	95*95*49.8 mm
Net Weight	0.6Kg max



This information is subject to change without notice. For more information, please contact ITECH.

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