

Model	UT258A+	Fluke 342	HT79	UT258A/ ETCR6000B	DUOYI DY260
ID					
Jaw dimension	φ 20mm	φ 20mm	φ 23mm	φ 18mm	φ 18mm
Category rating	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 600V	CAT III 600V
Resolution	1mA	1mA	1mA	1mA	1mA
Accuracy	± (1.3% +5)	± (1.3%+5)	± (1%+5)	± (2.0 % +5)	± (2.0 % +5)
ACA	0mA~40A	4A/40A	20A	0mA~60.0A	0mA~60.0A
DCA	0mA~40A	4A/40A	10A	0mA~60.0A	0mA~60.0A
Frequency response	40Hz ~ 400Hz	40-400Hz	40-400Hz	45Hz ~ 400Hz	45Hz ~ 400Hz
Voltage (AC/DC)	X	X	300V@(1.2%rdg+5dgt)	X	X
Display count	4000	4000	5000	-	-
True RMS	√	-	√	-	-
Zero	√	√	√	√	√
Data hold	√	X	√	√	√
Backlight	√	-	√	√	√
APO	√	√	√	√	√
Low battery indication	√	√	√	√	√
Over range	OL	-	-	OL	OL
Data storage	Via BT app	-	-	99 records	99 records
Data transmission	BT 5.0	-	-	RS232 interface	-
Product dimension	215×65×34mm	184 × 71 × 31mm	206 x 76 x 34mm	215×65×34mm	215×61×32mm
Wight	Around 200g	Around 235g	262g	Around 200g	Around 200g
IP rating	-	IP30	IP20	-	-
Tooling	Single color	Single color	Single color	Single color	Single color
Power supply	Alkaline battery 6LR61 9V or AAA*3 Battery life: Around 40h	9V alkaline battery, Battery life: 15小时	2*1.5V AAA LR03 Battery life: 15 hours	Alkaline battery 6LR61 9V or AAA*3 Battery life: Around 40h	9V battery
MSRP	\$ 238.00	\$544.29	\$ 750.00	\$200.00	\$99.99

UT258A+ vs Competitors

SPECIFICATIONS

Parameter	UT258A+	ETCR6000B	DUOYI DY260	Fluke 342
Jaw opening	φ20 mm	φ18 mm	φ18 mm	φ20 mm
CAT rating	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 300 V
Current type	AC + DC	AC + DC	AC + DC	AC + DC
Max resolution	1 mA (AC & DC)	1 mA	1 mA	1 mA
Best accuracy	±(1.3% + 5)	±(2.0% + 5)	±(2.0% + 5)	±(1.3% + 5)
ACA range	0–40 A	0–60.0 A	0–60.0 A	4 A / 40 A
Frequency response	40–400 Hz	45–400 Hz	45–400 Hz	40–400 Hz

DIFFERENTIATORS

Feature	UT258A+	ETCR6000B	DUOYI DY260	Fluke 342
True RMS	✓	—	—	—
Bluetooth 5.0 + App	✓	— (RS232 only)	—	—
Unlimited data storage	App	99 groups	99 groups	—
Certifications (CE / cETLus / FCC)	✓	—	—	—



Insight — UT258A+ is the only meter in this group with **True RMS + Bluetooth + full certifications** — at Fluke-342-grade accuracy (±1.3%+5), priced as a mainstream clamp.

Pre-Sales FAQ — Part 1

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01 What is the UT258A+ and what is its positioning?

A 40A AC/DC True RMS leakage current clamp with a **φ20mm jaw**. Range 0–40.0A on both AC and DC, **1mA resolution**, best accuracy $\pm(1.3\%+5)$. Uni-Trend's self-developed replacement for the OEM UT258A/ETCR6000B — small jaw, high resolution, Bluetooth. Benchmark: Fluke 342.

02 What has been upgraded versus the previous UT258A?

Jaw **φ18mm** → **φ20mm**. Accuracy **$\pm(2.0\%+5)$** → **$\pm(1.3\%+5)$** . Frequency response **45Hz** → **40Hz** lower bound. Data link **RS232** → **Bluetooth 5.0**. Certifications added: CE / cETLus / QDID / FCC.

03 What do 1mA resolution and $\pm(1.3\%+5)$ mean in practice?

Leakage currents sit in the tens-of-mA range, where an ordinary clamp lacks resolution. UT258A+ resolves **1mA on AC and DC** — the same accuracy class as Fluke 342, and better than the $\pm(2.0\%+5)$ of UT258A and DUOYI DY260. That is what allows it to capture an EV's dark current.

04 What value do Bluetooth 5.0 and the app bring?

Unlimited storage via app (vs 99 records for UT258A/DY260, none for Fluke 342); test and read results on the phone; no RS232 cable; App for **Android, iOS and HarmonyOS**; HOLD writes a single app record.

05 Which applications suit the UT258A+ best?

- EV production & maintenance — dark current / leakage
- Tracking grounding leakage sources
- Identifying intermittent RCD tripping without shutdown
- UPS insulation-fault checks
- Data-center distribution cabinets, industrial control loops
- Substations, power plants, transmission stations

AT A GLANCE

1 mA

Resolution, AC & DC

$\pm 1.3\%$

Best accuracy +5

φ20

mm jaw opening

BT 5.0

BLE + multi-OS app

Range 0mA~40.0A (AC & DC) · **Freq** 40–400Hz · **Display** 4200 count · **CAT III** 600V

Pre-Sales FAQ — Part 2

06 Why does the jaw design matter?

The **φ20mm elongated jaw** reaches tight spaces (EV bays, dense busbars). Treat it gently — impacts shift readings. Clamp **one conductor only**; two or more gives an incorrect reading.

07 What are the measurement and general specs?

AC / DC — 4000mA: 1mA, ±(1.5%+5) · 40.00A: 0.01A, **±(1.3%+5)**
Freq 40–400Hz · guaranteed 5–100% of range · jaw offset ≤5 counts
DC offset ≤80 counts — press **ZERO** before each run
4200 count · ~2–3 updates/s · auto range · OL · backlight
Auto power-off ~15 min (disabled when BT connected)
6LR61 9V · 233g · 215×65×34mm

08 What are the safety rating and certifications?

IEC/EN 61010-1 & 61010-2-032, **double insulated, CAT III 600V**, pollution degree 2, indoor. EMC per EN 61326-1/-2-2. Certifications: **CE (EMC, LVD, RoHS), cETLus, QDID, FCC**, type test report, third-party metrology.

09 Which safety and maintenance points must be observed?

Inspect before use; never operate with the cover off; replace damaged leads like-for-like. Above 30V AC/DC keep fingers behind the guard. Do not switch ranges while measuring. Replace the battery once the low-battery symbol shows. Clean with a damp cloth and mild detergent only — no abrasives or solvents.

10 How does the UT258A+ compare with its direct competitors?

Item	UT258A+	Fluke 342	DUOYI DY260	UT258A / ETCR6000B
Jaw	φ20 mm	φ20 mm	φ18 mm	φ18 mm
Best accuracy	±(1.3%+5)	±(1.3%+5)	±(2.0%+5)	±(2.0%+5)
True RMS	✓	—	—	—
Bluetooth + App	✓ BT 5.0	—	—	— RS232
Data storage	App: unlimited	—	99 groups	99 groups
Data hold	✓	—	✓	✓
CE certification	✓	— (IP30)	—	—



Takeaway — the UT258A+ is the only model here combining **True RMS + Bluetooth 5.0 + a full certification set**, at Fluke-342-grade accuracy and a mainstream clamp-meter price.