



Series LiteARC & MobiARC

MMA/Stick Electrode Inverter – small, light, high performance!



SMALL. LIGHT.



ALL IN ONE CASE (OPTIONAL):

- Stable, robust plastic case
- A lot of space for welding accessories
- Waterproof and shock resistant
- Easy to handle
- Low net weight

POWERFUL.

The new Merkle LiteARC series has been designed and built on latest inverter technology; this guarantees the best requirements for an optimum welding performance.

Whether for welding work with a customer, in the service industry or in your own workshop: The units of the LiteARC/MobiARC have sufficient welding power using the standard 230 V single phase supply. Fine details such as the plastic/metal housing, the large 50 mm² professional sockets, TIG function or the optimal handling thanks to the carry/shoulder strap, these machines offer a professional configuration in a compact format.

LiteARC 160: The five kilogram light weight welding inverter has everything for fast and mobile welding works. The functions Hotstart, Arcforce and Antistick come as a standard. TIG welding with LiftTIG ignition is also integrated.

LiteARC 180: This modern inverter offers a higher performance (up to 180 A) compared to the LiteARC 160. In addition it comes with a precise adjustment through a rotary switch and a digital display, the manual selection of Hotstart and Arcforce as well as a five meter long mains cable.

The LiteARC 180 has three operating modes that control the maximum power and duty cycle of the unit. Depending on the type of mains connection the system output power can be limited to prevent the fuse from blowing.



■ Hotstart function*:

Increasing of the start current to assure a safe ignition. The hotstart current is adjustable.

■ Arcforce*:

Increasing of the welding current in order to avoid adherence of the electrode.

■ Antistick:

In case of adherence of the electrode, the current is switched off immediately. Re-ignition after separation is only possible with a short delay.



* Switchable and adjustable at the LiteARC 180, permanent pre-set at the LiteARC 160.



ALL IN ORDER!

The patented **MobiARC 164 mobil** offers an integrated storage system. Instead of storing machine and accessories in a separate box, Merkle uses the housing as a clever storage system for the entire welding equipment.

There is enough room for earth cable, electrode holder, gloves, hand shield, hammer and wire brush.

THE ADVANTAGES ARE IN THE DETAILS



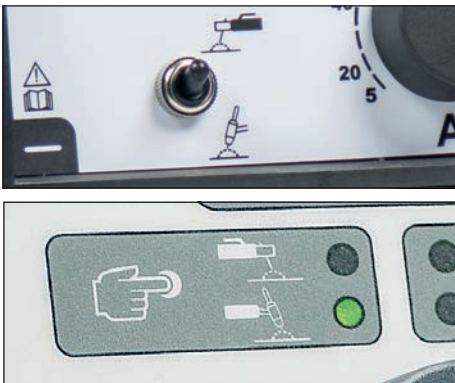
Stable, robust and shock resistant

The all new plastic/metal housing with additional panel cover.



Optimal Handling

Maximum mobility thanks to the carry/shoulder strap provided. Small, light, handy, portable.



TIG operation

TIG welding with LiftTIG ignition:
up to 160 A (LiteARC 160)
up to 180 A (LiteARC 180)



Digital display

Continuous adjustment of the welding current with digital display.
(LiteARC 180)



Professional connection sockets

Large 50 mm² professional sockets for the employment of Merkle standard accessories.



Far-reaching operation

Extra long mains cable with 5 m length.
(LiteARC 180)



Technical Data	LiteARC 160	LiteARC 180	MobiARC 164 mobil
Power supply	1 x 230 V	1 x 230 V	1 x 230 V
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Continuous power (MMA/TIG)	3.7 kVA / 2.8 kVA	5.3 kVA / 3.7 kVA	3.7 kVA / 2.8 kVA
Continuous current (MMA/TIG)	16 A / 12 A	23 A / 16 A	16 A / 12 A
Stick electrodes	1.5 - 3.25 mm	1.5 - 4.0 mm	1.5 - 3.25 mm
Open circuit voltage	64 V	68 V	64 V
Welding voltage (MMA/TIG)	15 - 160 A / 5 - 160 A	20 - 170 A / 10 - 180 A	15 - 160 A / 5 - 160 A
Welding current (MMA/TIG)	20.6 - 26.4 V / 10 - 16.4 V	20.8 - 26.8 V / 10.4 - 17.2 V	20.6 - 26.4 V / 10 - 16.4 V
Duty cycle 25 % (10 min) (MMA/TIG)	150 A (40 °C) / 160 A (20 °C)	170 A (40 °C) / 180 A (40 °C)	150 A (40 °C) / 160 A (20 °C)
Duty cycle 60 % (10 min)	90 A (40 °C)	130 A (40 °C)	90 A (40 °C)
Duty cycle 100 %	80 A (40 °C)	115 A (40 °C) / 90 A* (40 °C)	80 A (40 °C)
Protection class	IP 23	IP 23	IP 23
Operation modes	MMA/stick electrode, TIG (DC) with LiftTIG	MMA/stick electrode, TIG (DC) with LiftTIG	MMA/stick electrode, TIG (DC) with LiftTIG
Digital display	—	Welding current	—
Additional functions	Hotstart, Arcforce and Antistick [permanent]	Hotstart and Arcforce (adjustable), Antistick [permanent]	Hotstart, Arcforce and Antistick [permanent]
Norm	EN 60974-1 „S“ / CE	EN 60974-1 „S“ / CE	EN 60974-1 „S“ / CE
Sockets 50 mm ²	earth lead, electrode cable	earth lead, electrode cable	earth lead, electrode cable
Mains cable	2.5 m length with schuko-plug	5 m length with schuko-plug	2.5 m length with schuko-plug
Weight	5.0 kg	5.2 kg	12 kg
Dimensions (l x w x h)	360 x 150 x 240 mm	360 x 150 x 240 mm	436 x 222 x 385 mm

* In MMA/stick electrode mode with 16 A fuse.
 Technical modification reserved.

PRODUCT RANGE

- MIG/MAG Welding Units
- Synergic Pulse Welding Units
- TIG Welding Units
- MMA / Stick Electrode Welding Units
- Plasma Welding and Cutting Units
- Turntables and Roller Drive Units
- Welding and Cutting Torches
- Automation Components and Solutions
- Merkle Robotics

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