


**DC - CV & CVCC
Power Sources**

ESAB 653cvcc

- Multi-process, three phase power sources designed for heavy duty industrial DC welding applications
- Use for Mig, flux cored wire, submerged arc and stick electrode welding or air carbon arc gouging
- Compatible with 42v and AVS wire feeders: MobileFeed 200avs, MobileFeed 300avs, MobileMaster IV, 2E, 4HD, 4HD Dual and with 115v wire feeders/controls: Mig 35, Digimig, Digimig Dual, Digimatic II, UEC-8, DuraDrive 4-30 and DuraDrive 4-48
- 115 vac outlet for water circulator or tools
- Control electronics are protected from dirt and dust in an easy-access compartment
- Optional wire feed adaptor kits for Miller and Lincoln wire feeders

Ordering Information

ESAB Power Sources

653cvcc, 230(208)/460 vac, 3 ph, 60 Hz.....	37829
653cvcc, 230(208)/460/575 vac, 3 ph, 60 Hz	37830
653cvcc, 220/400 (380-415) vac, 3 ph, 50 Hz CE	37832

ESAB 653cvcc Migmaster Packages

The following package includes an ESAB DC power source, wire feeder, 8 ft. (2.4m) control cable, 8 ft. (2.4m) gas hose, .035/.045 in. (.9/1.2mm) feed roll, - 15 ft. (4.5m) GunMaster gas-cooled gun, 15ft. work cable with clamp, 15 ft. wire feeder weld cable and R-33-FM-580 regulator with adjustable flowmeter.

Migmaster 653cvcc, Mig 4HD, GM-400cc,	
230(208)/460/575 vac.....	36234

Note: For other Ready-to-Weld feeder packages see page 4-25

Options & Accessories

Power source to wire feeder control cables - see section Wire Feeders - Accessories - Control Cables	
ESAB Feeder/Remote Control Kit	0558001436
<i>(14 pin remote, 19 pin Esab feeder, and 115vac receptacles)</i>	
HC-3B Hand Control , 30 ft. (9.1m) cable	33838
<i>(requires 0558001436)</i>	
Mini Boom for Mig 4HD (requires Swivel Post)	34322
Swivel Post , use with Mig 4HD or Mig 2E wire feeders	36172
Auto Fan™ Kit	36707
TR-29 Truck Kit	37924
Miller Wire Feeder Adaptor Kit, 24Vac	0558001415
Lincoln Wire Feeder Adaptor Kit	0558001416
Work Cable with Clamp (15 ft.).....	0558001440
Feeder Cable with Lug (15 ft.).....	0558001441

Instruction Manual	F-15-572
Sales Literature	<i>(12-01-2006)</i> ARC-23077



Shown with optional DuraDrive 4®-48 wire feeder, GM-400 Mig welding torch, TR-29 Truck kit, 15 ft. work cable and welding wire

Specifications

Rated DC Output* @ 100% duty cycle,	
50/60 Hz, cv or cc 653cvcc	650 amps @ 44 vdc
Rated DC Output* @ 60% duty cycle,	
50/60 Hz, cv or cc 653cvcc	750 amps @ 44 vdc
Open Circuit Voltage, 50/60 Hz 653cvcc ...	54 vdc (cv)/59 vdc (cc)
Primary Input Voltage & Current @ rated 100% duty cycle load	
653cvcc, 230(208)/460 vac, 60 Hz, 3 ph	108/54 amps
653cvcc, 230(208)/460/575 vac, 60 Hz, 3 ph	108/54/43
amps 653cvcc, 220/400 (380-415) vac, 50 Hz, 3 ph ..	
.....	102/56 (59-54) amps
Power Factor @ rated load	83%
Auxiliary Output Power (receptacle).....	115 vac, 50/60 Hz, 10 amps
W x L x H.....	18.75 in. (46 cm) x 32.5 in. (83 cm) x 25 in. (64 cm)
Net Weight,** 60 Hz 653cvcc.....	493 lb. (224 kg)
Shipping Weight** (approximate), 60 Hz 653cvcc ...	503 lb. (229 kg)

* For 208 vac, 60 Hz and 380 vac, 50 Hz service, derate output current rating 10%.

** For 50 Hz models, add 40 lb. (18kg)