

IVECO C87TE1D diesel engine  
ABB | MARELLI | ENGGA alternator



MODEL	Standby		Prime	
	kVA	KW	kVA	kW
IV.300	300	240	273	218

**Standby ratings** for the supply of emergency power at variable load for the duration of the non-availability of the mains. No overload capacity is available at this rating. A standby rated engine should be sized for an average load factor of 80% based on published standby rating for 500 oper. hours per year. Standby ratings should never be applied except in true emergency power failure conditions.

**Prime ratings** available for unlimited hours per year with a variable load of which the average engine load factor is 80% of the published power rating, incorporation of a 10% overload for 1 hour in every 12 hours of operation which permitted

Continuous power rating is available for continuous full load operation No overload is permitted.

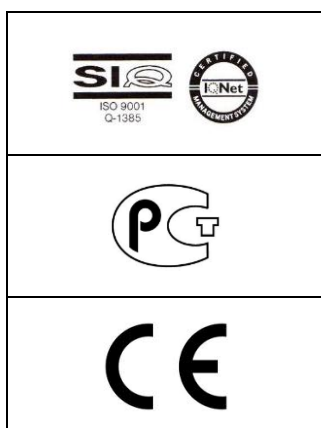
Acc. to 3046/1, BS 5514, DIN6271

### STANDARD GENERATOR FEATURES

- Automatic mains failure microprocessor controller
- Heavy duty diesel engine
- Tropical radiator
- Electric starter
- 3 pole circuit breaker for generator protection
- Acid batteries
- DC alternator
- Self-excited, brushless synchronous alternator
- Heavy duty chassis with antivibration dumpers
- Industrial mufflers with 19 dBA sound reduction
- Control system with engine and generator protection
- Special designed fuel tank cassette type
- Mechanical fuel level gauge
- Revision hole on fuel tank for cleaning purpose
- Factory load test CosΦ=1
- Factory functional test of all systems
- Exhaust gases compensator

### OPTIONAL GENSET EQUIPMENT

- Battery charger 6A, 230V
- Engine coolant heater 2250W, 230V
- 3P ATS changeover switch
- Soundproofed canopy according 2000/14/EC
- DIN ISO container
- Road trailer
- Non-road trailer
- 4-pole generator circuit breaker
- Differential protection
- Doublewall fuel tank with fuel leakage sensor
- 24h autonomy fuel tank and/or external fuel tanks
- System for automatic refueling from external fuel tank
- Supersilent canopy 55 dBA



### GENERATOR SET BASIC DATA

Standby power	kVA	300
	KW	240
Prime power	kVA	273
	KW	218
Cosφ		0,8
Phrequency	Hz	50
Voltage	V	400V/230V
Current	A	434
Standards	ISO8528-1, ISO3046-1,BS5514,	

### DIESEL ENGINE DATA

Manufacturer	IVECO	
Model	C87 TE1D	
Volume	cm3	8700
Engine speed	1500	
Engine construction	6 in line	
Cooling	watercooled	
Governor	electronic	
Radiator ambient temp.	40°C	
Electric installation	V	24
Emission	STAGE II	
Standards applied	ISO8528	

### FUEL CONSUMPTION

g/kWh	100%	205,4
	75%	209,3
	50%	225
	25%	228
l/h	100%	58,5
	75%	47,5
	50%	35,4
	25%	18,6

### ATS CHANGEOVER DATA (ATS is optional equioment)

Manufacturer	ABB   SOCOMEC   SICES	
Type	Motorized 1-0-2 changeover	
Nominal Current	A	630
Breaking Current	8 x In	
No. of poles	3	
Instalation type	Indoor	
IP protection	IP23	
Tip of cabinet	On wall type	
Cable entry	Bottom side	
Standards applied	ISO8528	

### Optional for ATS

- 4pole breakers
- IP65/IP66 protection
- Top cabl entry
- Selfstanding cabinet
- AMF logic controler installed on ATS

### GENERATOR DATA

Manufacturer	MARELLI   ENGGA   WEG		
Model	MJB 315 SA4   EG280-220N   250M100AI		
Tempertaure rise	163°C/27°C		
Type	Synchronous, selfexcited		
Power factor	0,8		
Insulation class	H		
Voltage regulation	AVR		
Voltage accuracy	0,5%		
No.of poles	4		
Winding type	2/3		
Rotor	dynamically balanced		
Shortcurrent cusrcuit	300% In		
Generator construction	single bearing		
IP protection	IP23		
Type of windings	100% copper, triple insulated		
THF	<2%		
TIF	<50		
Standardi	IEC34, BS5000, DIN EN, ISO		

### Generator optionals

- PMF excitation
- PT thermistors
- Anticondensation heaters
- Doubl ebearing construction
- Air filters
- Special voltage
- Parallel kit

### DERIVATION ACCORDING ALTITUDE

N.visina	<1000 m	<1500 m	<2000 m	<2500 m	< 3000m
K faktor	1,00	0,96	0,93	0,90	0,86

### AMBIENT TEMPERATURE CORRECTION FACTOR

Ambient T	30	35	40	45	50	55
K faktor	1,04	1,00	1,00	0,96	0,93	0,90

### INSTALATION DATA

Open set	Dimensions	mm	2900x1100x1800
	Weight	kg	2400
	Fuel tank	lit	350
Premium canopy	Dimensions	mm	3900x1250x2100
	Weight	kg	2850
	Fuel tank	lit	350
	Noise level	dBa	71@7m