

# INDUSTRIAL SERIES

# **85VO**

PRIME PO	WER	STAND-BY	POWER
kVA	kW	kVA	kW
85	68	94	75,2

3~ 50 Hz. 400V	•
VOLVO PENTA	<b>*</b>
EU STAGE 2	\$5
69 dB(A) @ 7 mt	<b>₹</b> 0
120 lt	J

ENVIRONMENTAL CONDITIONS	
Temperature	40° C
Height	1000 mslm
Humidity	60%

## **OPEN VERSION B200**

## **SOUNDPROOF VERSION C130**







 ${\it The image is only for demonstration purposes}$ 

WEIGHT	DIMENSIONS		
kg	L [mm]	W [mm]	H [mm]
1680	3200	1100	2090





### PAP Ampere roting   122,7   A		TECHNICAL DETAILS			
### PRP Ampere rating 122,7 A    Engine   VOLVO PENTA TAD 530GE		Electrical system type	3F+N	~	
### PRP Ampere rating 122,7 A    Engine   VOLVO PENTA TAD 530GE	DATA	Power factor	0,8	φ	
### PRP Ampere rating 122,7 A    Engine   VOLVO PENTA TAD 530GE	ELECTRICAL	Voltage	400	V	
### PAP Ampere rating   122,7   A		Frequency	50	Hz	
Engine emissions standard (REG. UE 2016/1628)  RPM governor  Reprimentation of cylinders  Rpm  Displacement Induction system  Cooling system  Engine net prime power  Engine emit prime power  Engine emit prime power  Cooling system  Water  Engine net prime power  Engine emit prime power  Cooling system  Water  Engine net prime power  Engine emit prime power  Insulation system  Turbocharged  Cooling system  Water  Engine net prime power  Engine net prime power  Insulation class  Insulation class  Insulation class  H  Temperature ise class  Voltage precision  EU STAGE 2  Mechanical  RPM governor  Mechanical  Ref 3  Rpm  1500  rpm  108 x 130  mm  Turbocharged  Cooling system  Water  Engine net prime power  Insulation system  STAMFORD - MECC ALTE - MARELLI MOTORN  STAMFORD - MECC ALTE - MARELLI MOTORN  Type  Self excited, brushless  H  Temperature ise class  H  Voltage precision  4  Water  Topocharce  STAMFORD - MECC ALTE - MARELLI MOTORN  AVR  Voltage precision  4  Mechanical  Ref aviant  AVR  Voltage precision  4  BB(A)  mm	ш	PRP Ampere rating	122,7	А	
RPM governor Mechanical Performance class G3 Rpm 1500 rpm Nr. of cylinders 4 Bore x stroke 108 x 130 mm Displacement 4760 cc Induction system Turbocharged Cooling system Water Engine net prime power 100,5 (75) Hp (k Exhaust gas aftertreatment / Fuel type Diesel Consumption © 50-75-100% load 11-16-21 lt/l Autonomy © 75% load 7,5 h  Alternator STAMFORD - MECC ALTE - MARELLI MOTORI Type Self excited, brushless Number of poles H Insulation class H Temperature rise class H Voltage regulation AVR Voltage precision 69 dB(A)  Sound level (soundproof version) 69 dB(A) Exhaust pipe diameter 990 mm		Engine	VOLVO PENTA TAD 530GE		
Performance class  Rpm  1500  Rpm  1500  Typn  Nr. of cylinders  Bore x stroke  108 x 130  min  Displacement  Induction system  Cooling system  Engine net prime power  Engine net prime power  Engine net prime power  Consumption  Fuel type  Consumption  Standard tank capacity  Autonomy  75% load  7,5  h  Alternator  STAMFORD – MECC ALTE – MARELLI MOTORI  Type  Self excited, brushless  Number of poles  Insulation class  Temperature rise class  Voltage regulation  AVR  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  100,5 (75)  Hep (k  Turbocharged  Turbocharged  Cooling system  Water  Turbocharged  Turbocharged  Turbocharged  Turbocharged  Turbocharged  Standard tank capacity  It/l  It/l  Standard tank capacity  Alternator  STAMFORD – MECC ALTE – MARELLI MOTORI  Type  Self excited, brushless  H  Voltage precision  AVR  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  900  min		Engine emissions standard (REG. UE 2016/1628)	EU STAGE 2		
Rpm 1500 rpn Nr. of cylinders 4 Bore x stroke 108 x 130 mm Displacement 4760 cc Induction system Turbocharged Cooling system Water Engine net prime power 100,5 (75) Exhaust gas aftertreatment //  Fuel type Diesel Consumption © 50-75-100% load 11-16-21 lt// Autonomy © 75% load 7,5 h  Alternator STAMFORD - MECC ALTE - MARELLI MOTORI Type Self excited, brushless Number of poles 4 Insulation class H Insulation class H Voltage precision 4 Voltage precision 500 dB(A) Voltage precision 500 dB(A)  Exhaust pipe diameter 900 mm		RPM governor	Mechanical		
Nr. of cylinders  Bore x stroke  108 x 130  Displacement  Induction system  Cooling system  Engine net prime power  Engine net prime power  Exhaust gas aftertreatment  Fuel type  Consumption © 50-75-100% load  11 - 16 - 21  It/l  Autonomy © 75% load  Alternator  Type  Alternator  Type  Self excited, brushless  Number of poles  Insulation class  H  Voltage precision  Exhaust pipe diameter  None  Sound level (soundproof version)  Exhaust pipe diameter  100,5 (75)  Hp (k  Material  Turbocharged  Coc  Turbocharged  Turbocharged  Turbocharged  Coc  Turbocharged  Turbocharged  Fuel type  Diesel  Consumption © 50-75-100% load  11 - 16 - 21  It/l  It to		Performance class	G3		
Bore x stroke Displacement Disp		Rpm	1500	rpm	
Displacement 4760 cc Induction system Turbocharged Cooling system Water Engine net prime power 100,5 (75) Hp (k  Exhaust gas aftertreatment /  Fuel type Diesel Consumption © 50-75-100% load 11 – 16 – 21 lt/l  Autonomy © 75% load 7,5 h  Alternator STAMFORD – MECC ALTE – MARELLI MOTORI Type Self excited, brushless Number of poles H Insulation class H Voltage regulation AVR Voltage regulation AVR Voltage precision ± 1 %  Sound level (soundproof version) 69 dB(A) Exhaust pipe diameter 90 mm	N E	Nr. of cylinders	4		
Induction system  Cooling system  Water  Engine net prime power  Exhaust gas aftertreatment  Fuel type  Consumption © 50-75-100% load  11-16-21 lt/l  Standard tank capacity  Autonomy © 75% load  Alternator  Type  Self excited, brushless  Number of poles  Insulation class  Temperature rise class  Voltage regulation  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  Turbocharged  Water  Water  100,5 (75) Hp (k	ENGI	Bore x stroke	108 x 130	mm	
Cooling system Engine net prime power Engine net prime power Engine net prime power 100,5 (75) Hp (k  Exhaust gas aftertreatment  Fuel type Consumption © 50-75-100% load 11-16-21 lt/l  Standard tank capacity Autonomy © 75% load  Alternator Type Self excited, brushless Voltage regulation Voltage precision  Sound level (soundproof version) Exhaust pipe diameter  Water  Hap (k  Hap		Displacement	4760	СС	
Engine net prime power  Exhaust gas aftertreatment  Fuel type Consumption © 50-75-100% load  Standard tank capacity Autonomy © 75% load  Alternator Type Self excited, brushless Insulation class Temperature rise class Voltage regulation Voltage precision  Sound level (soundproof version) Exhaust gas aftertreatment  //  Hp (k)  Exhaust gas aftertreatment  //  Diesel It/  Standard tank capacity 120 It/  STAMFORD – MECC ALTE – MARELLI MOTORI STAMFORD – MECC ALTE – MARELLI MOTORI  Self excited, brushless  H  Voltage regulation AVR Voltage precision  \$\frac{1}{2}\$\$\$ \text{AVR}\$		Induction system	Turbocharged		
Fuel type Consumption @ 50-75-100% load  Standard tank capacity Autonomy @ 75% load  Alternator  Type  Number of poles Insulation class Temperature rise class Voltage regulation Voltage precision  Sandard tank capacity  Autonomy  Self excited, brushless  H  Voltage regulation Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  Voltage Insulation class  Temperature (soundproof version)  Sound level (soundproof version)  Sound level (soundproof version)  Fuel type  Diesel  11 - 16 - 21  It/li  It/li It/li  It/li  It/li		Cooling system	Water		
Fuel type  Consumption © 50-75-100% load  Standard tank capacity  Autonomy © 75% load  Alternator  Type  Self excited, brushless  Number of poles  Insulation class  Temperature rise class  Voltage regulation  Voltage precision  STAMFORD - MECC ALTE - MARELLI MOTORI  By Self excited, brushless  H  Voltage regulation  AVR  Voltage precision  STAMFORD - MECC ALTE - MARELLI MOTORI  Alternator  STAMFORD - MECC ALTE - MARELLI MOTORI  ALTERNATION  Self excited, brushless  H  Voltage regulation  AVR  Voltage regulation  Sound level (soundproof version)  Exhaust pipe diameter  90 mm		Engine net prime power	100,5 (75)	Hp (kW)	
Consumption © 50-75-100% load  Standard tank capacity Autonomy © 75% load  Alternator  Type  Number of poles Insulation class Insulation class Voltage regulation Voltage precision  Standard tank capacity  Autonomy © 75% load  Type  Self excited, brushless H  Voltage regulation AVR  Voltage precision  Exhaust pipe diameter  STAMFORD – MECC ALTE – MARELLI MOTORI  Self excited, brushless H  Voltage regulation AVR  Voltage precision  Exhaust pipe diameter  90  It/I		Exhaust gas aftertreatment	1		
Alternator Type Self excited, brushless Number of poles Insulation class Inemperature rise class Voltage regulation Voltage precision  STAMFORD – MECC ALTE – MARELLI MOTORI  Fundamental Summer of poles A  H  Voltage regulation AVR  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  STAMFORD – MECC ALTE – MARELLI MOTORI  A  Bell excited, brushless A  H  A  Bell excited, brushless Bell excited, brushless A  Bell excited, brushless Bell ex	z	Fuel type	Diesel		
Alternator Type Self excited, brushless Number of poles Insulation class Inemperature rise class Voltage regulation Voltage precision  STAMFORD – MECC ALTE – MARELLI MOTORI  Fundamental Summer of poles A  H  Voltage regulation AVR  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  STAMFORD – MECC ALTE – MARELLI MOTORI  A  Bell excited, brushless A  H  A  Bell excited, brushless Bell excited, brushless A  Bell excited, brushless Bell ex	<b>IPTIO</b>	Consumption @ 50-75-100% load	11-16-21	lt/h	
Alternator Type Self excited, brushless Number of poles Insulation class Temperature rise class Voltage regulation Voltage precision  STAMFORD – MECC ALTE – MARELLI MOTORI  Fundamental Motorial Market Self excited, brushless  H  Voltage regulation AVR Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  STAMFORD – MECC ALTE – MARELLI MOTORI  Alternator  Self excited, brushless  H  W  Bell excited, brushless  A  Bell excited, brushless  A  Bell excited, brushless  A  Bell excited, brushless  Bell excited, brushless  A  Bell excited, brushless	NSUN	Standard tank capacity	120	lt	
Type  Number of poles  Insulation class  Temperature rise class  Voltage regulation  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  Self excited, brushless  4  AR  H  W  AVR  Description  AVR  4  4  4  4  4  4  4  4  4  4  4  4  4	8	Autonomy @ 75% load	7,5	h	
Number of poles  Insulation class  Temperature rise class  Voltage regulation  Voltage precision  Sound level (soundproof version)  Exhaust pipe diameter  AUR  4  H  4  B  AVR  AVR  4  B  AVR  AVR  4  B  AVR  4  B  AVR  AVR  90  Mn		Alternator	STAMFORD – MECC ALTE – MARELLI MOTORI		
Insulation class Temperature rise class H Voltage regulation Voltage precision  Sound level (soundproof version) Exhaust pipe diameter  H  AVR  4  B  G  G  G  G  G  G  G  G  G  G  G  G		Туре	Self excited, brushless		
Voltage regulation  Voltage precision  \$\frac{\text{to Voltage precision}}{\text{to Unique precision}}\$  Sound level (soundproof version)  Exhaust pipe diameter  \$\frac{\text{dB(A)}}{\text{min}}\$  minumatical proof to the proof of the proo	OR	Number of poles	4		
Voltage regulation  Voltage precision  \$\frac{\text{to Voltage precision}}{\text{to Unique precision}}\$  Sound level (soundproof version)  Exhaust pipe diameter  \$\frac{\text{dB(A)}}{\text{mn}}\$  mn	RNAT	Insulation class	н		
Voltage precision ± 1 %  Sound level (soundproof version) 69 dB(A)  Exhaust pipe diameter 90 mn	ALTE	Temperature rise class	Н		
Sound level (soundproof version)  Exhaust pipe diameter  90 mn		Voltage regulation	AVR		
Exhaust pipe diameter 90 mn		Voltage precision	±1	%	
Exhaust pipe diameter 90 mm		Sound level (soundproof version)	69	dB(A) 7mt	
9 Floatrical system voltage	GENERAL	Exhaust pipe diameter	90	mm	
Electrical system voltage		Electrical system voltage	12	V	



# ELECTRIC PANEL

#### MANUAL

#### **AUTOMATIC MAINS FAILURE**





Electronic control unit with multimeter LOVATO ELECTRIC RGK420SA COMAP InteliLite 9		COMAP InteliLite 9
Electrical panel enclosure protection degree	IP44	
ON-OFF electric panel switch	Key type. In-built the control unit	Without key
Emergency pushbutton	STANDARD	
Battery charge maintainer	/	12V 5A
Power supply	Full power terminal	Full power terminal
Circuit breaker	Magnetothermal type 4P ABB Tmax-XT 125A	Magnetothermal type 4P ABB Tmax-XT 125A
Main protection alarms	Min-max V and Hz. LOP. HWT. Battery charger alternator failure. Low fuel level	

#### STANDARD ELECTRONIC CONTROL UNIT

LOVATO ELECTRIC RGK420 SA



COMAP



Functions: manual start, remote start, periodic test

Multimeter V (L1, L2, L3, N), A (L1), Hz, kVA, battery V, hour counter

Backlit LCD display. Optical port and NFC

 $Functions: automatic\ or\ manual\ start,\ remote\ start,\ periodic\ test$ 

Multimeter V (L1, L2, L3, N), A (L1, L2, L3), Hz, kVA, battery V, hour counter

Backlit LCD display. USB port

Communication accessories available: Ethernet, GSM-GPRS, 4G, GPS

#### OPTIONAL ELECTRONIC CONTROL UNIT







# SOUNDPROOF AND WEATHERPROOF CANOPY



Self-supporting frame material	Carbon steel sheet, electro-welded, minimum thickness 3 mm	
Soundproof canopy material	Carbon steel sheet, electro-welded, thickness between 1,5 and 4,5 mm	
Painting	Epoxy powder RAL5015 textured, outdoor-proof	
In-built fuel tank	<b>120 lt</b> + <i>Drip tray</i>	
Soundproofing coating material	Polyester fiber. Fire resistance EN13501-1 class B	
Muffler	In-built the canopy. Residential type with sound reduction 35 dB(A)	
Access openings	n.3 doors with padlockable key lock	
Electric panel	Lateral side position. Dedicated door with padlockable key lock	
Fresh air intake and hot air expulsion	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
Lifting system	n.2 lifting hooks	
Support feet	n.4 support feet with holes for machine ground fastening	

CONTAINER TRANSPORTABILITY ADVANTAGES					
VERSION			20' BOX	40' BOX	40' HC
4	———N. transportable pieces		4	10	10
			4	8	8



#### **MAIN OPTIONS**



140A automatic transfer switch (ATS)



250 It bigger fuel tank with drip tray



750W engine preheating system



Electronic engine speed governor



Automatic fuel transfer kit with manual by-pass system



Residual current protection relay adjustable in sensitivity and intervention time



Engine oil pressure and cooling water temperature measuring instruments

#### **OTHER OPTIONS**

Power distribution socket set Synchronizing electric panel Battery switch

Remote control systems ETHERNET, 2G - 3G - 4G, GPS

Further alternator brand Quick couplings for connecting an external tank with three way valve -

Outdoor, underground and transportable tanks Slow or fast towing trailer Front hot air expulsion canopy Further colors

#### **VERSIONS WITH SPECIAL EQUIPMENT**



**RENTAL** 

Special version with features designed for the rental market



**ZERO NOISE** 

Super sound-proofed special version, noise level 50, 55 or 60 dB(A)

Greenpower AB Helsingborgsvägen Varalöv, 262 96 Ängelholm, Sweden

Phone: +46 43122240

Email: info@greenpower.se Web: www.greenpower.se