



D-Vo Light

Model	D-Vo Light
Frame size	400 ÷ 900
Regulator	D-Vo Light
Part number	10024471
Compliance	CE DNV / GL type approved

Main Data		
Generator frame size	Standard: all marine generators On request: any Marelli Motori generator from 160 frame size	
AVR supply	Auxiliary winding PMG Mains	
Voltage sensing	Single phase 3-phase	
Voltage remote control	Arrangement	
Radio interference supressor	Arrangement for external filters	
Over-exitation device	Arrangement for varicomp PMG	
Parallel operation with the mains	Internal	



Parallel operation with similar generators	Arrangement
Standard protections	Field over-current, field over-voltage, generator over/under voltage, generator over-current, loss of sensing, Diode monitoring (DMS)
Limiters	Under-frequency, over/under-excitation
Function	PC interface, Modbus TCP/IP, FRT detection, soft start, 9 digital input, 3 digital outputs, 3 analogue inputs, external potentiometer
Electrical characteristics	
Power supply voltage	Up to 250Vac @ 50 ÷400Hz - 1-ph/3-ph Control power supply 24 ÷ 250 Vac @ 50 ÷ 400 Hz - 1-ph/3-ph
Power supply source	Auxiliary windings, mains, PMG
Voltage sensing type	1-phase / 3-phase
Voltage sensing range	100 ÷ 480 Vac
Current sensing type	1-phase / 3-phase
Current sensing range	1A
Maximum continuative field current	0 ÷ 10 Adc
Maximum forcing field current	0 ÷ 20 Adc
Maximum field voltage	200 Vdc



Field resistance	3 Ω ÷ 20 Ω
Regulation accuracy from no load to full load	±0.25% of rated voltage
Steady state accuracy	±0.1 % of rated voltage
Accuracy with ±4% engine governing	±1 % of rated voltage
PF / VAR / FCR modes	PF mode: ±0.005PF(with PF between 0.9 lagging and 0.9 leading) VAR mode: ±2% of rated power FCR mode: ±2% of rated exciter current
Voltage matching	±2% of rated voltage
Thermal Drift	±0.5 % of rated voltage
Response time	1 cycle
Operating temperature	-30°C ÷ +70°C
Storage temperature	-40°C ÷ +80°C
Features	
Interface	D-Vo Dashboard
Function	Droop compensation Soft start Voltage matching
Protection	Under-frequency limiter Over-excitation limiter Under-excitation limiter Field over-voltage Field over-current Generator over-voltage Generator under-voltage Generator over-current Loss of sensing Diode monitoring



Control	2 current inputs (4/20mA) 1 voltage input (+/-10V) connection to external potentiometer 100kOhm available 9 digital contact inputs (8 programmable) 3 digital outputs
Dimensions and weight	
L	335 mm
В	183,5 mm
K	322 mm
J	148,5 mm
н	60 mm
Weight	3000g
Drawing	L K