



Technical Datasheet for Mahniroo Alternators DSG52 L2-4

Generator data

Generator:	DSG52 L2-4	poles:	4	Standard:	IEC60034	
Rated power:	530 KVA	Rated Current:	768 A	Rated Voltage:	230 V	
Active Power:	424 Kwatt	Reactive Power:	318 kvar	Power Factor:	0.8	
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	452 kwatt	
Voltage range/ferquency range :		Zone A according IEC 60034-1 (dU=+/-5%,df=+/-2%)				
Insulation class	stator: Class H	Rotor: Class H	Temperature Rise: H			
Winding Pitch:	2/3					
Ambient Temperature:	40°C	Site altitude:	1000 m	Enclosure: IP23		
Enviroment: Standard Enviroment						
Cooling:	1C 01-Open-circuit ventilation	Cooling Air Vol:	65 m ³ /min			
Weight:	1400	Momment of Inertia:	7.9 Kg/m ²			
Temperature Air inlet:	40°C	Cooling Water Quantity:	n/a			
Losses(eniroment):	28 Kwatt	Losses(cooling):	n/a			
Wires:	4 terminals, starpoint connected in terminal box			[Single	yes
Voltage regulator:	Cosimat C /MN	Operation mode	Parallel		yes	

Electrical Data (aac,IEC)

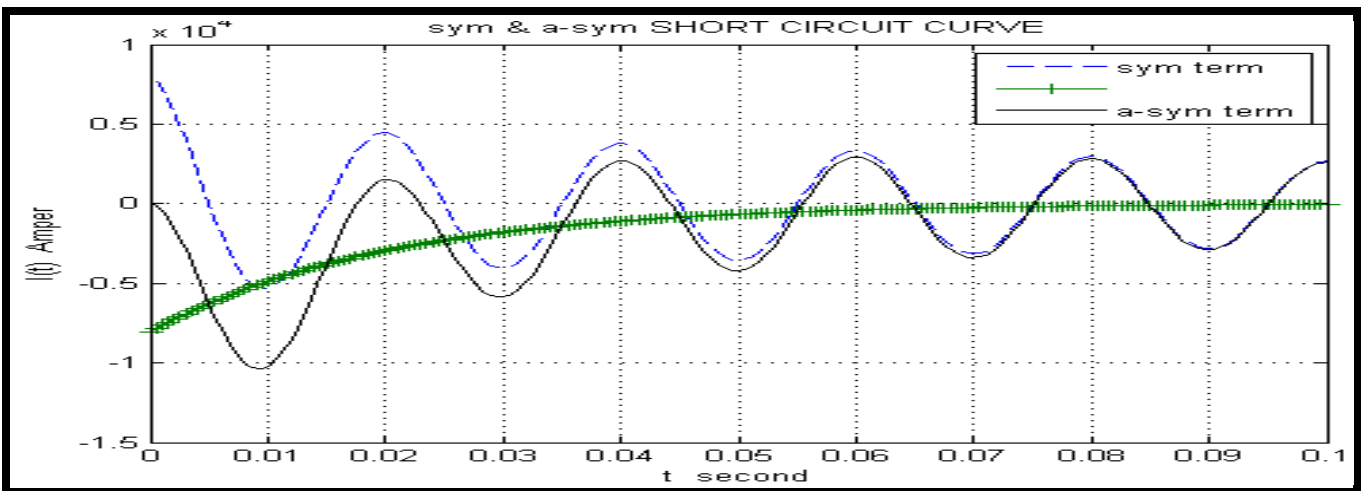
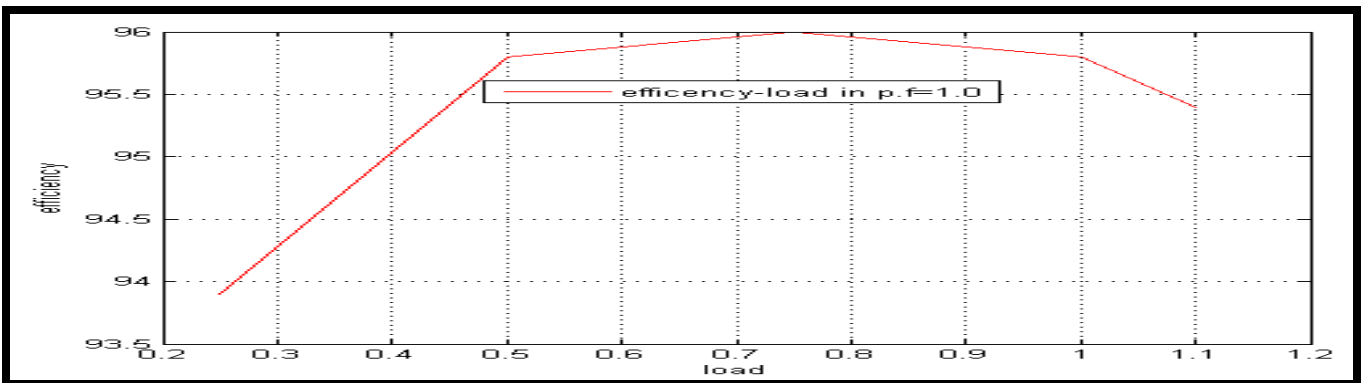
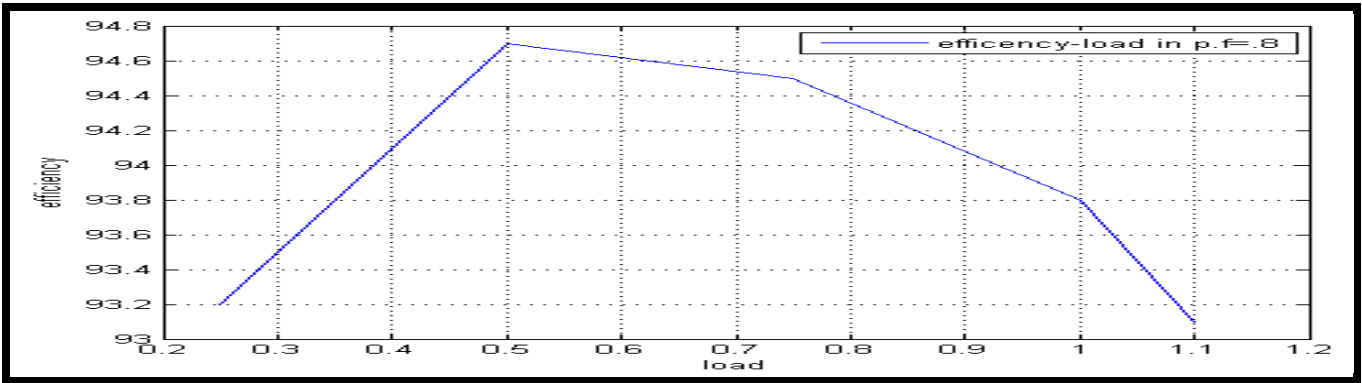
Efficiencies	110%	100%	75%	50%	25%
P.F 0.8	93.1	93.8	94.5	94.7	93.2
P.F 1.0	95.4	95.8	96	95.8	93.9

Reactances (p.u.) and time constants (second)

$X_d^{saturated}$	2.56	$X_q^{saturated}$	1.2	T_{d0}'	1.85 s
$X_{d'}^{saturated}$	0.208	$X_{q''}^{saturated}$	0.146	$T_{d'}$	0.151 s
$X_{d''}^{saturated}$	0.124	$X_0^{saturated}$	0.059	$T_{d''}$	0.0073 s
$X_2^{saturated}$	0.135			T_a	0.0203 s
$X_{1s}^{saturated}$	n.a.			$T_{q'}$	0.0107 s



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General Arrangement for Mahniroo
Alternators DSG52 L2-4

