



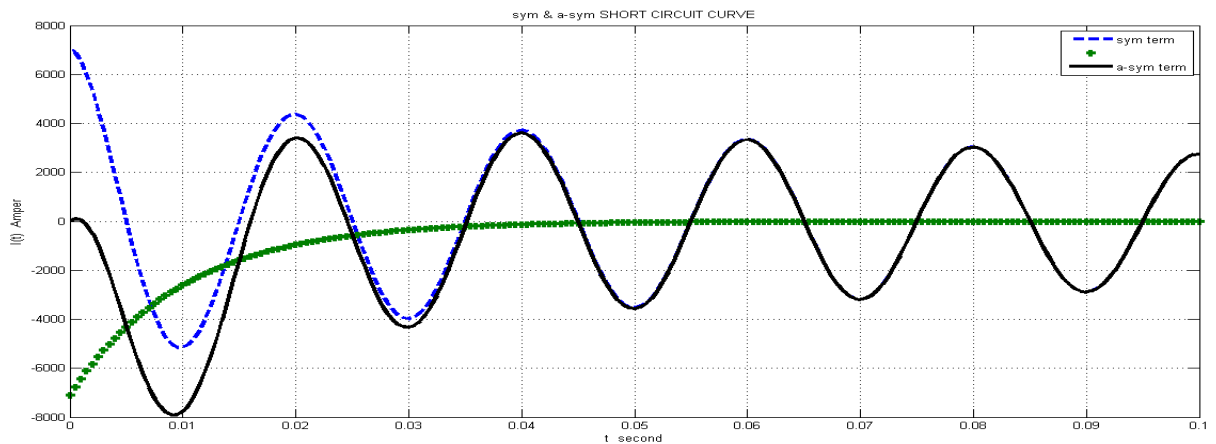
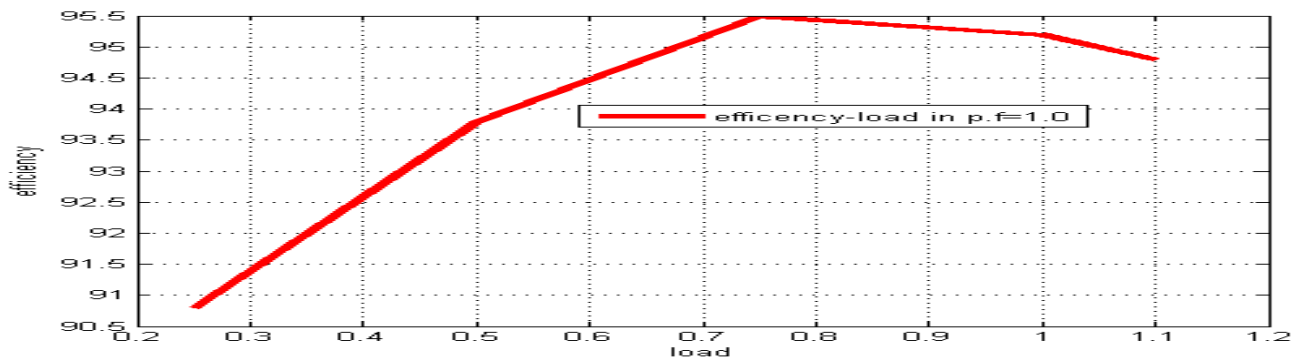
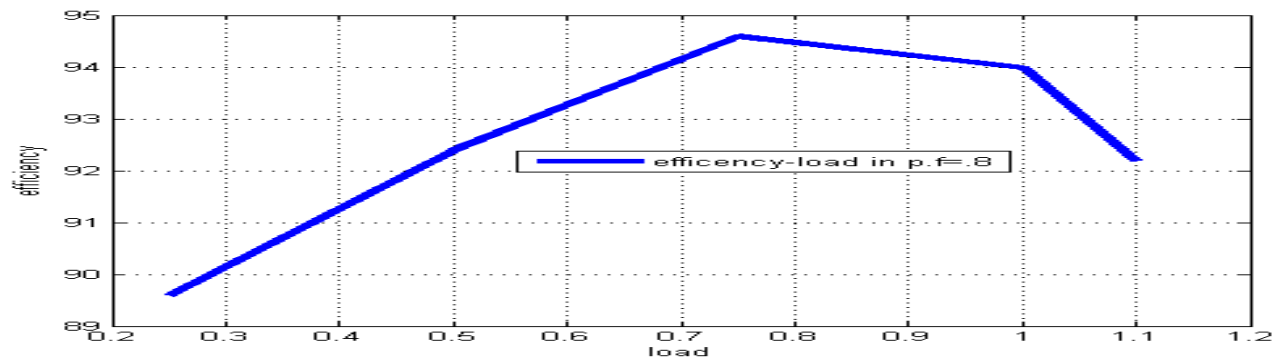
Technical Datasheet for Mahniroo Alternators DSG62 m0-4

Generator data

Generator :	DSG62 m0-4	poles: 4	Standard:	IEC60034			
Rated power :	560 KVA	Rated Current:	812 A	Rated Voltage:	400 V		
Active Power :	448 Kwatt	Reactive Power:	336 kvar	Power Factor:	0.8		
Speed:	1500 rpm	Freq:	50 HZ	Mech Power:	477 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:	80 m ³ /min			
Weight:	1600	Momment of Inertia:	10 Kg/m ²				
Temperature Air inlet	40°C		Cooling Water Quantity:	n/a			
Losses(enviroment):	29 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	92.2	94	94.6	92.4	89.6
P.F 1.0	94.8	95.2	95.5	93.8	90.8
Reactances (p.u.) and time constants (second)					
$X_d^{\text{saturated}}$	2.8	$X_q^{\text{saturated}}$	1.3	T_{d0}'	2.75 s
$X_{d'}^{\text{saturated}}$	0.233	$X_{q''}^{\text{saturated}}$	1.3	$T_{d'}$	0.18 s
$X_{d''}^{\text{saturated}}$	0.148	$X_0^{\text{saturated}}$	0.055	$T_{d''}$	0.009 s
$X_2^{\text{saturated}}$	0.162			T_a	0.01 s
$X_{1s}^{\text{saturated}}$	n.a.			$T_{q'}$	0.2 s





General Arrangement for Mahniroo
Alternators DSG62 MO-4

