complex power (Due to both real and Imaginary part) The product of the rms voltage and the complex conjugate of the rms current phasor is known as complex power. zmr + rosport phoson > Vrms -> complex conjugate of rms current Phasor -> Irms Example +->1(+) -> V(+)=> Vrms, Ov Crale roct) [Z] Trms = Vrms (OV) → i(t) => Irms, oi Ims = Ims (Oi 10-) 2mr = 2mr (-0) Thern-forc, complex power (S)= Vms. Irme S= Vrms (Ov. Frms 2-0) 9mt 3 = Vmns. 7mms (0p- Q; Formula for average power, P = 1 Vm Im (08 (0v-01) P= Real { + VmIm & (OV-0,1) }

Scanned by CamScanner

Vrms Irms (108 (04-01) +1 \$10 (04-01)